STR-DB725/DB825

SERVICE MANUAL

AEP Model
UK Model

Photo: STR-DB825

This receiver incorporates the Dolby* Pro Logic Surround system.

* *Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol ◻◻, "PRO LOGIC," and Dolby Digital (AC-3) are trademarks of Dolby Laboratories Licensing Corporation.*

SPECIFICATIONS

Amplifier section

POWER OUTPUT

Stereo mode (DIN 1 kHz, 4 ohms)
STR-DB825: 100 W + 100 W
STR-DB725: 80 W + 80 W

Surround mode
(DIN 1 kHz, 4 ohms)
STR-DB825:
Front: 100 W + 100 W
Center[a]: 100 W
Rear[a]: 100 W + 100 W
STR-DB725:
Front: 80 W + 80 W
Center[a]: 80 W
Rear[a]: 80 W + 80 W

a) Depending on the sound field settings and the source, there may be no sound output.

5.1/DVD mode (DIN 1 kHz, 4 ohms)
STR-DB825:
Front: 100 W + 100 W
Center[a]: 100 W
Rear[a]: 100 W + 100 W
STR-DB725:
Front: 80 W + 80 W
Center[a]: 80 W
Rear[a]: 80 W + 80 W

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, TAPE/MD, VIDEO 1/2/3: 10 Hz - 50 kHz +0.5/–2 dB (with sound field, tone, and bass booster bypassed)

Inputs
PHONO:
Sensitivity: 1.5 mV
Impedance: 50 kilohms
S/N[b]: 75 dB (A, 2.5 mV[c])
CD:
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b]: 82 dB (A, 150 mV[c])
TAPE/MD, VIDEO 1/2/3, TV/LD:
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b]: 82 dB (A, 150 mV[c])
5.1/DVD INPUT
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b]: 82 dB (A, 150 mV[c])

b) 78' IHF
c) Weighted network, input level

Outputs
AUDIO OUT:
Voltage: 150 mV
Impedance: 10 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohm
PHONES:
Accepts low- and high-impedance headphones

BASS BOOST +10 dB at 70 Hz

TONE ±8 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Sensitivity
Mono: 18.3 dBf, 4.5 μV
Stereo: 38.3 dBf, 45 μV

Usable sensitivity
11.2 dBf, 1 μV (IHF)

S/N
Mono: 76 dB
Stereo: 70 dB

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz - 15 kHz
+0.5/–2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range 531-1,602 kHz (with 9-kHz tuning scale)

Antenna Loop antenna

Usable sensitivity
50 dB/m (at 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion
0.5 % (50 mV/m, 400 Hz)

Selectivity 35 dB

Video section

Inputs 1 Vp-p 75 ohms

Outputs 1 Vp-p 75 ohms

General

System Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: Low-noise NF type equalizer
Power amplifier section: Pure-complementary SEPP

Power requirements
230 V AC, 50/60 Hz

Power consumption
STR-DB825: 220 W
STR-DB725: 200 W

AC outlet 100 W maximum, switched

Dimensions 430 × 160 × 410 mm including projecting parts and controls

Mass (approx.)
STR-DB825: 12.5 kg
STR-DB725: 10.9 kg

Supplied accessories
Check that you received the following items with the receiver:
- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander (remote) (1)

Model	Remote
STR-DB825	RM-LJ301
STR-DB725	RM-PP401

- LR6 (size AA) alkaline batteries (3) (STR-DB825)
  R6 (size AA) batteries (2) (STR-DB725)
- Operating Instructions of the remote

Design and specifications are subject to change without notice.

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION
— BACK PANEL —

PARTS No.	MODEL
4-900-493-0☐	DB725
4-900-493-1☐	DB825

SECTION 1
SERVICING NOTE

FACTORY SET

Mode which sets the preset settings of the unit to that at shipment.

Procedure:

While pressing the < button and BASS BOOST button together, press the I/⏻ button to turn on the power.
"FACTORY" will be displayed and factory settings executed.

INITIALIZATION

Mode which erases all the preset settings of the unit.
Use this mode when returning the unit to the customer.

Procedure:

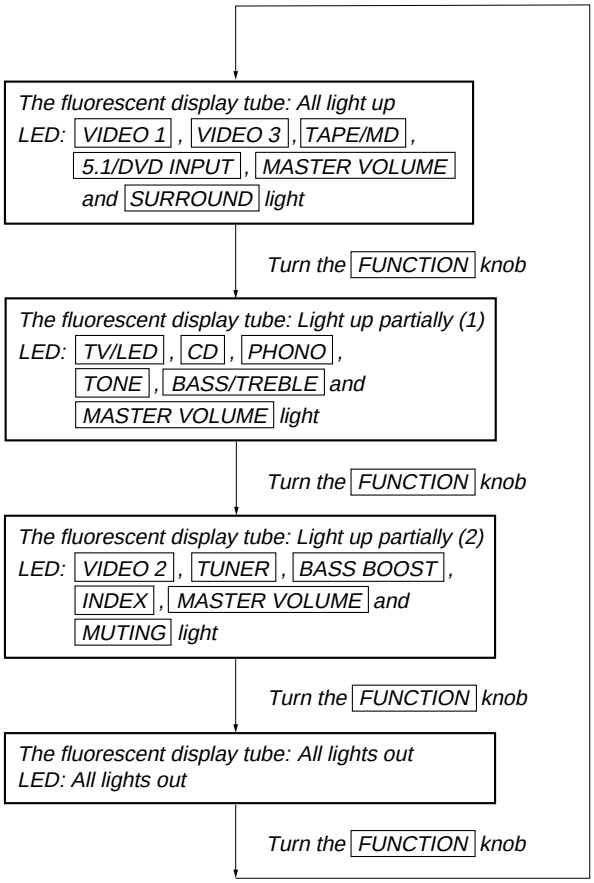
While pressing the MEMORY button and MUTING button together, press the I/⏻ button to turn on the power.
"ALL CLEAR" will be displayed and initialization executed.

FLUORESCENT INDICATOR TUBE AND LED LIGHTING CHECK

Mode which lights up the whole fluorescent indicator tube or partially.

Procedure:

While pressing the ∨ button and BASS BOOST button together, press the I/⏻ button to turn on the power.
The whole fluorescent display tube lights up.
The fluorescent display tube and LED light up in the following sequence each time the FUNCTION knob is rotated.


The fluorescent display tube: All light up
LED: VIDEO 1 , VIDEO 3 , TAPE/MD , 5.1/DVD INPUT , MASTER VOLUME and SURROUND light
Turn the FUNCTION knob
The fluorescent display tube: Light up partially (1)
LED: TV/LED , CD , PHONO , TONE , BASS/TREBLE and MASTER VOLUME light
Turn the FUNCTION knob
The fluorescent display tube: Light up partially (2)
LED: VIDEO 2 , TUNER , BASS BOOST , INDEX , MASTER VOLUME and MUTING light
Turn the FUNCTION knob
The fluorescent display tube: All lights out
LED: All lights out
Turn the FUNCTION knob

KEY CHECK

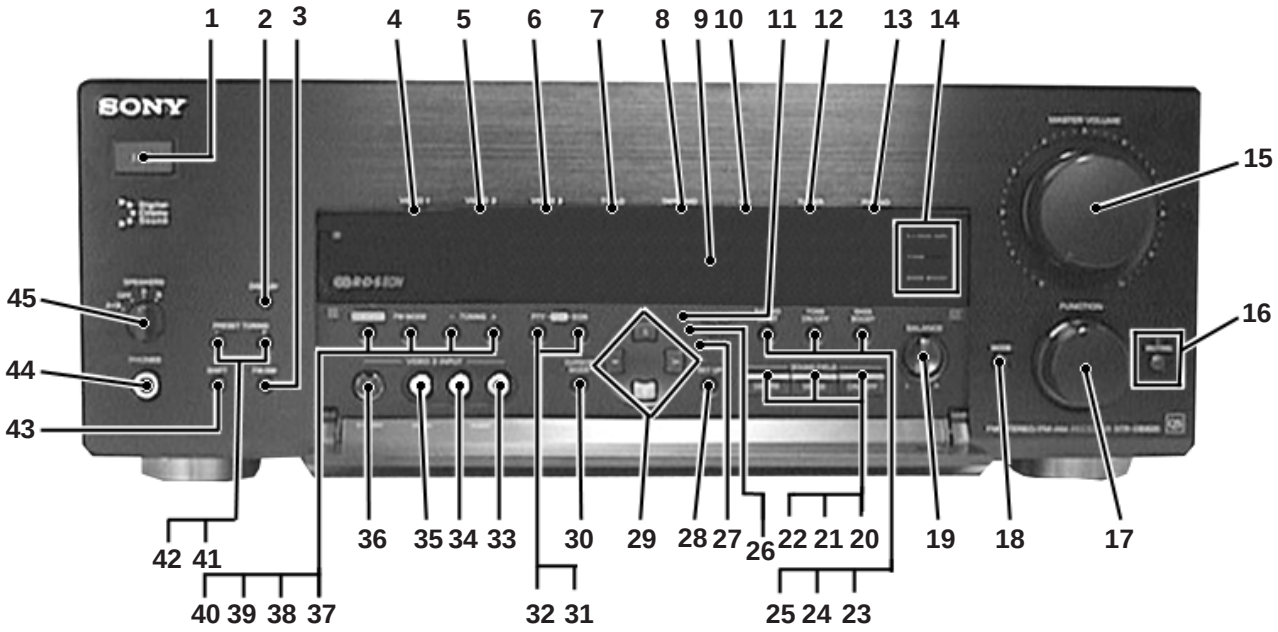
Mode for checking key input.

Procedure:

Turn on the power by pressing the I/⏻ button while pressing the ∧ button and the BASS BOOST button. "REST 25 KEY" is displayed.
The count decreases each time the button is pressed.
Buttons counted once will not be couned again.
"REST 00 KEY" is displayed when all the buttons are pressed.

SECTION 2
GENERAL

Front Panel Descriptions

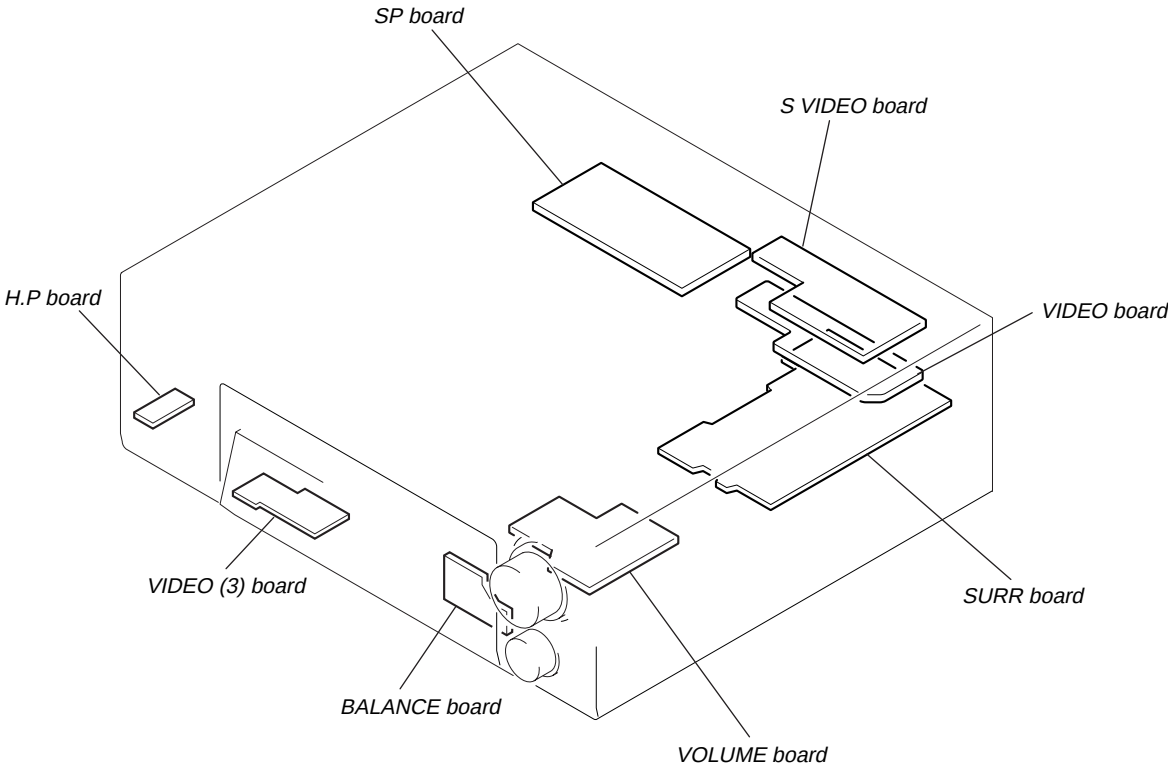


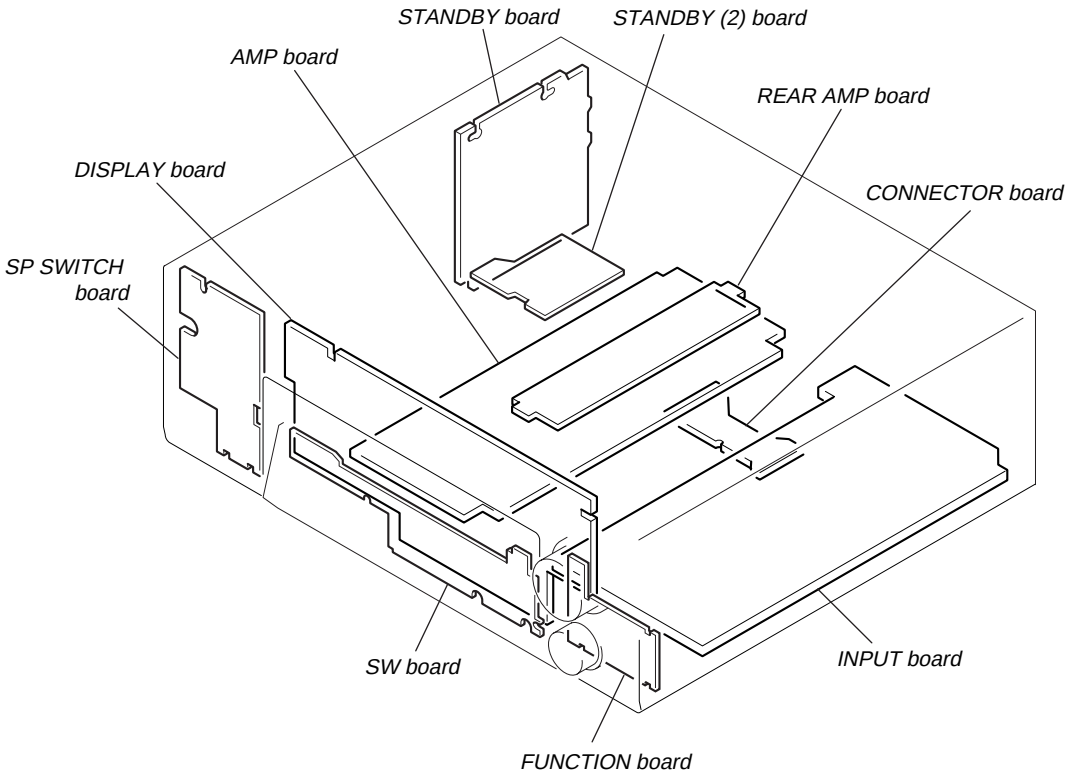
LOCATION OF PARTS AND CONTROLS

1 I/⏻ (power) switch
2 DISPLAY button
3 FM/AM button
4 VIDEO 1 indicator
5 VIDEO 2 indicator
6 VIDEO 3 indicator
7 TV/LD indicator
8 TAPE/MD indicator
9 Display window
10 CD indicator
11 SURROUND indicator
12 TUNER indicator
13 PHONO indicator
14 5.1/DVD INPUT indicator
TONE indicator
BASS BOOST indicator
15 MASTER VOLUME knob
16 MUTING button and indicator
17 FUNCTION knob
18 MODE switch
19 BALANCE knob
20 SOUND FIELD ON/OFF button
21 SOUND FIELD MODE button
22 SOUND FIELD GENRE button
23 BASS BOOST button
24 TONE ON/OFF button
25 5.1/DVD INPUT button
26 BASS/TREBLE indicator
27 INDEX indicator
28 SET UP button
29 Digital Processing Controls
30 CURSOR MODE button
31 RDS EON button
32 RDS PTY button
33 VIDEO 3 INPUT AUDIO R connecot
34 VIDEO 3 INPUT AUDIO L connecot
35 VIDEO 3 INPUT VIDEO connecot
36 VIDEO 3 INPUT S-VIDEO connecot
37 TUNING + button
38 TUNING – button
39 FM MODE button
40 MEMORY button
41 PRESET TUNING + button
42 PRESET TUNING – button
43 SHIFT button
44 PHONES jack
45 SPEAKERS selector switch

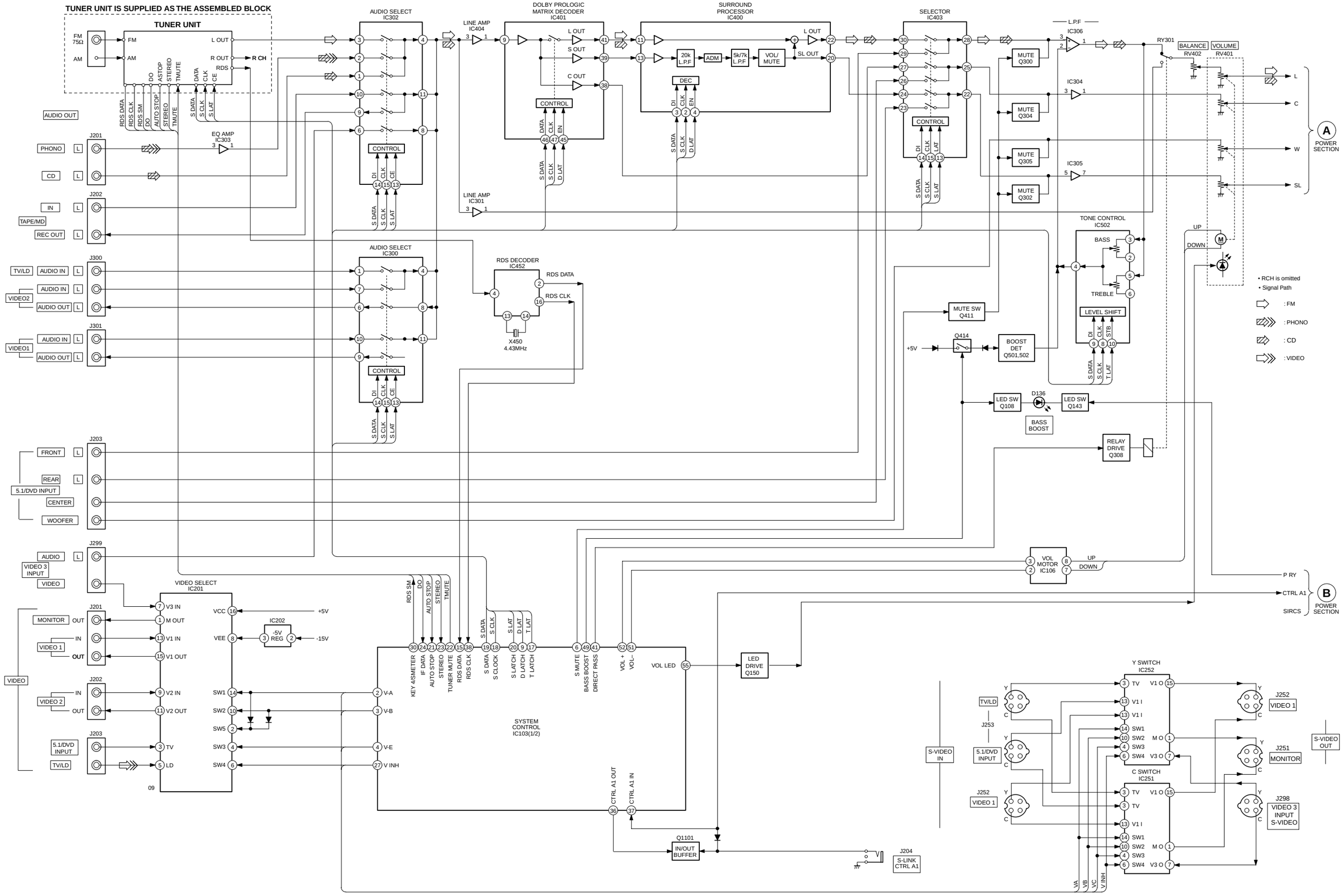
SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

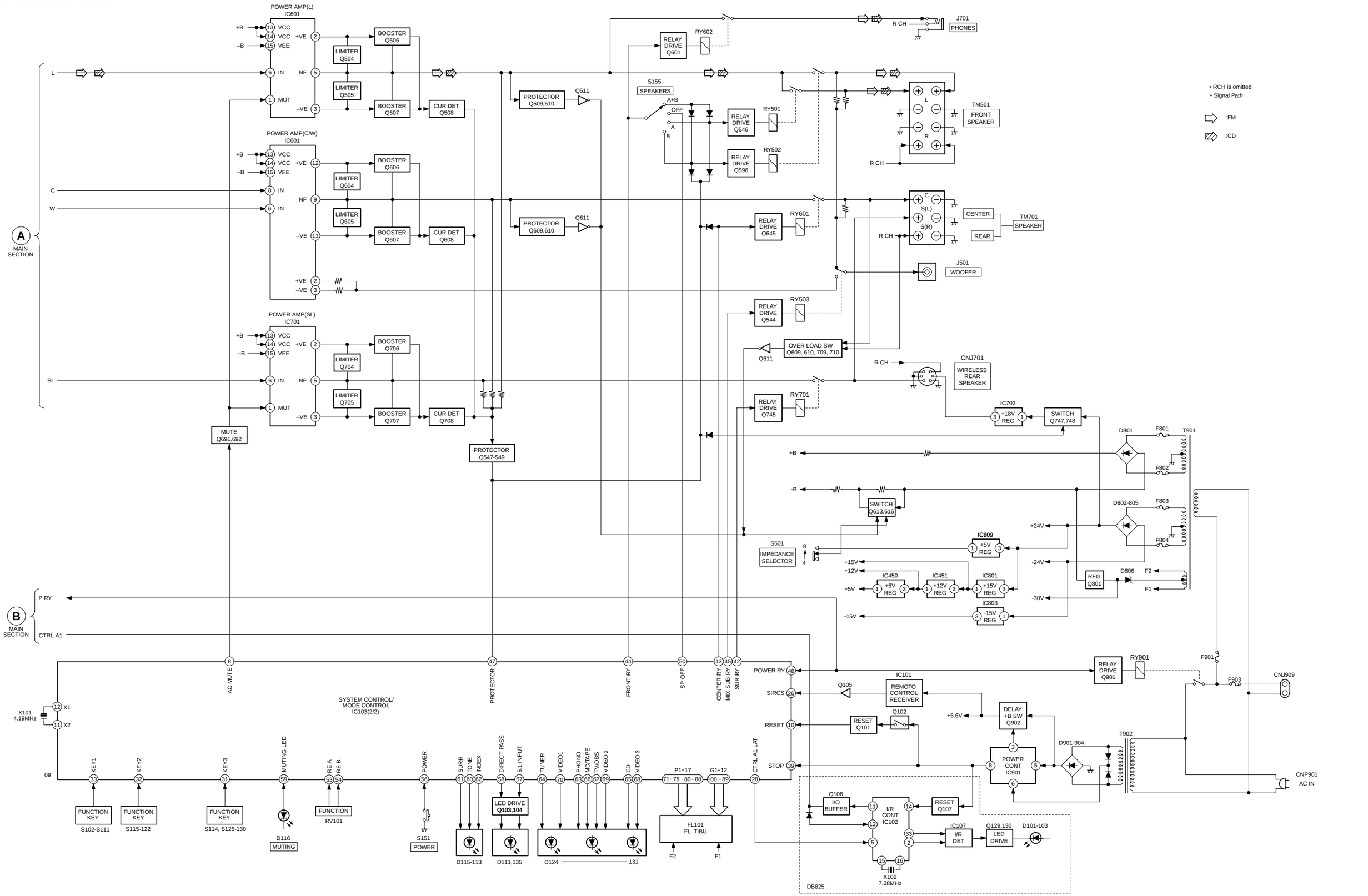




3-2. BLOCK DIAGRAMS
– MAIN SECTION –



– POWER SECTION –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

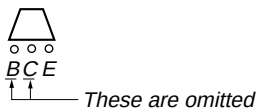
- B+ : B+ Line.
- B− : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : AUDIO
  : VIDEO
  : SURROUND
  : PB (TAPE/MD)
  : REC (TAPE/MD)
  : Y
  : CHROMA
  : CD
  : PHONO

For printed wiring boards.

Note:

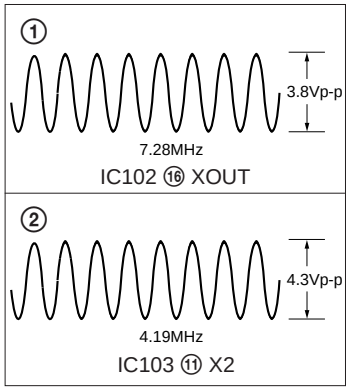
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- △ : internal component.
- : Pattern from the side which enables seeing.

• Indication of transistor



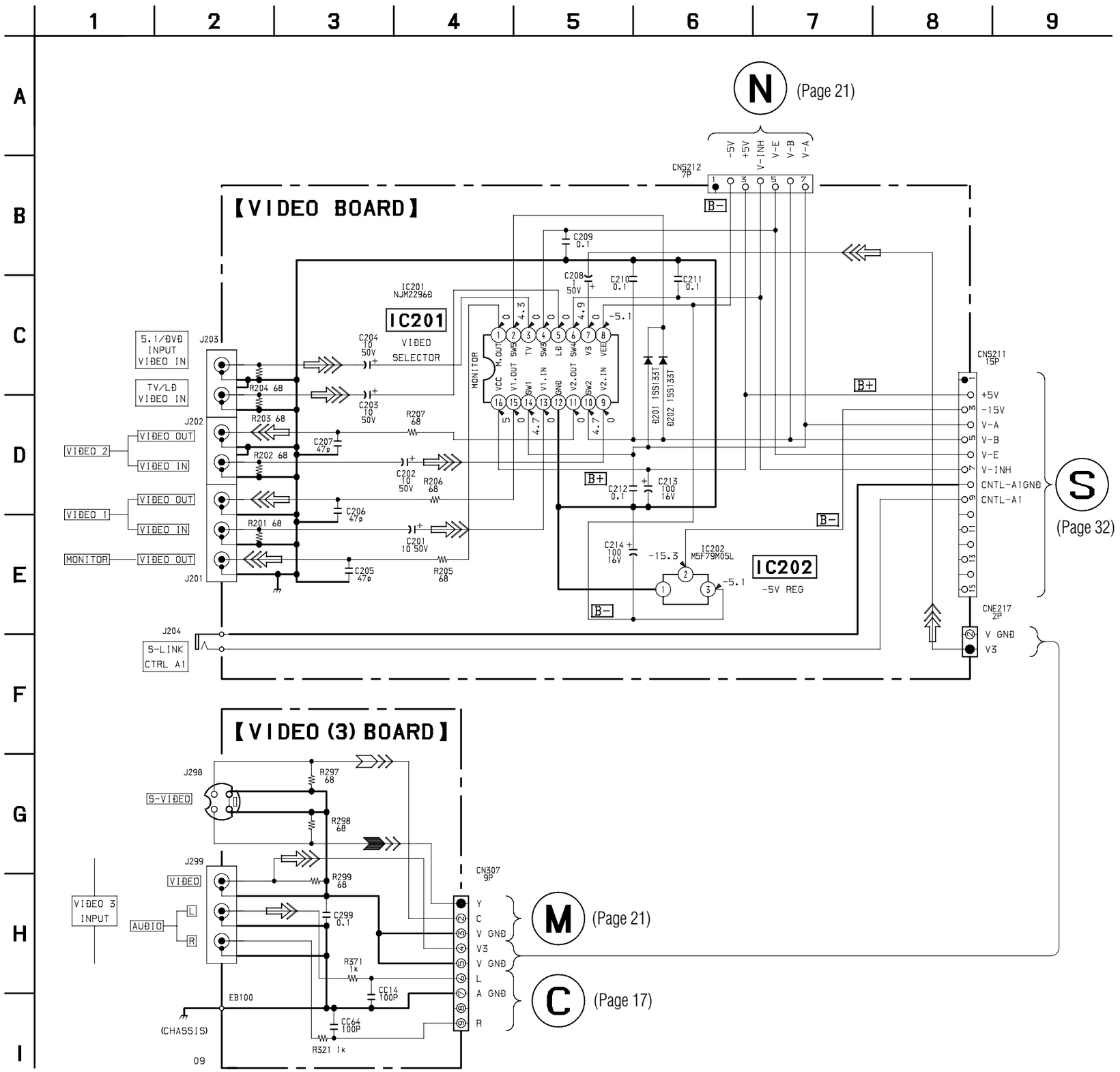
These are omitted

WAVEFORMS
– DISPLAY SECTION –



3-3. SCHEMATIC DIAGRAM – VIDEO INPUT SECTION –

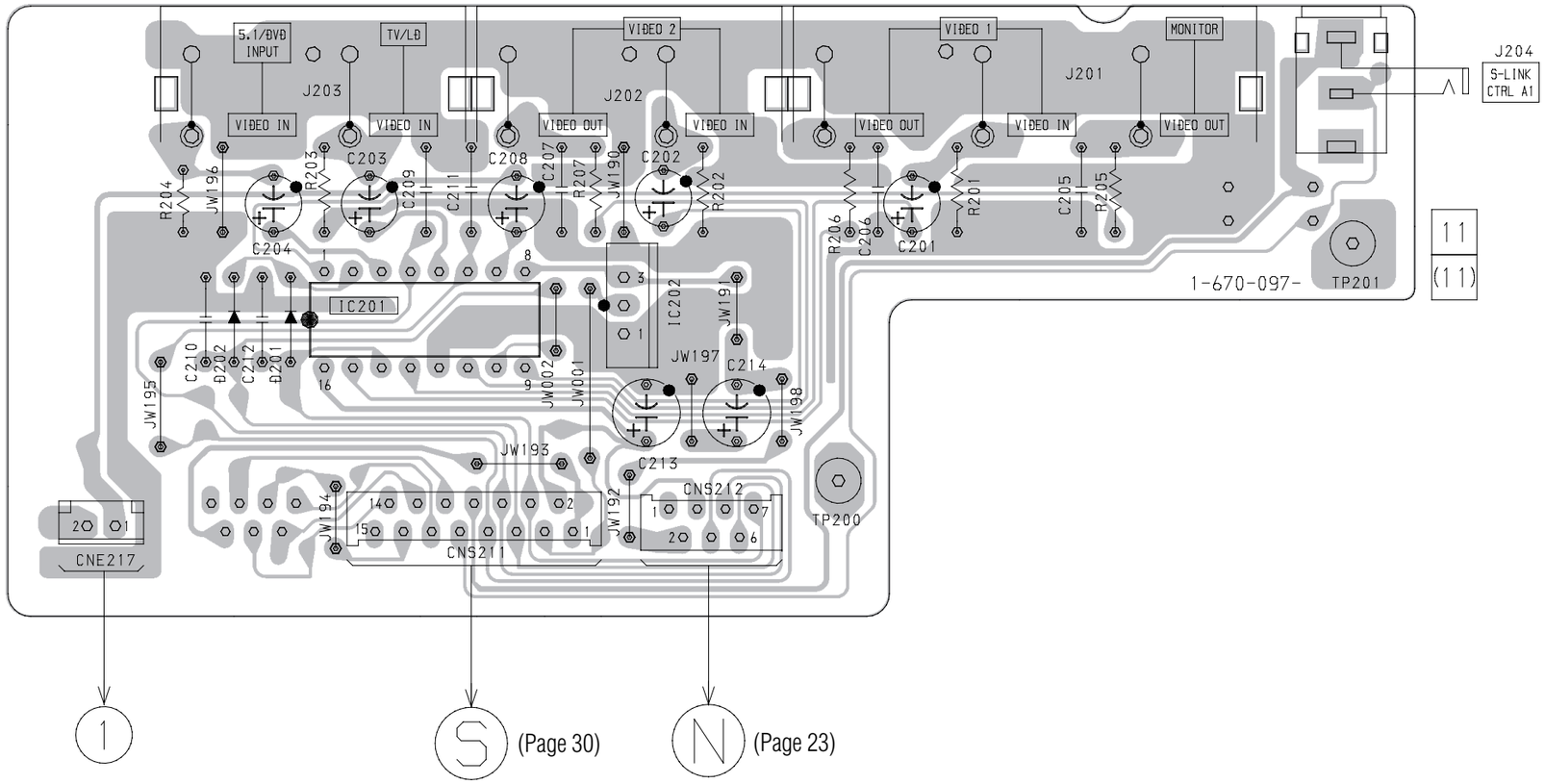
• See page 43 for IC Block Diagrams.



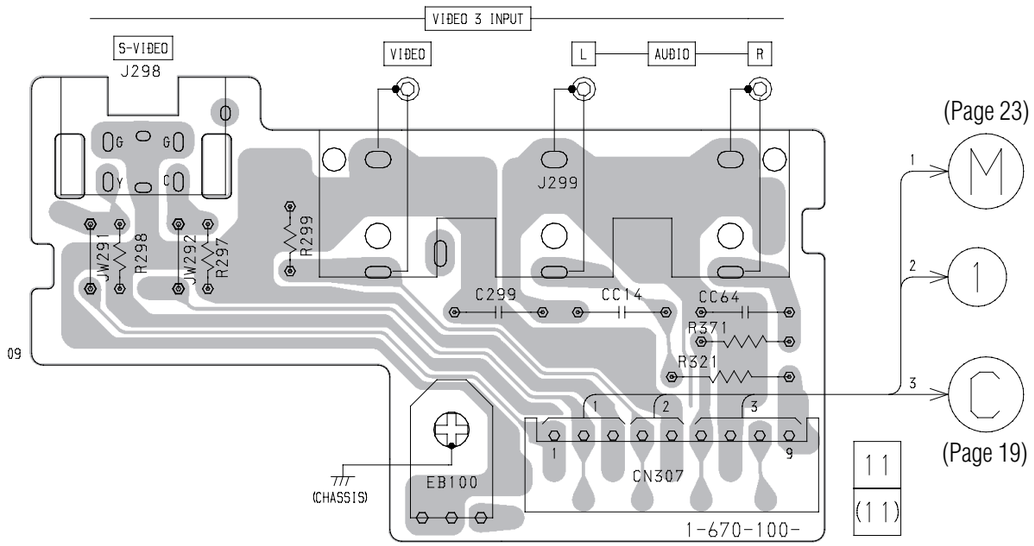
3-4. PRINTED WIRING BOARD – VIDEO INPUT SECTION –

• See page 5 for Circuit Boards Location.

【VIÐEO BOARÐ】

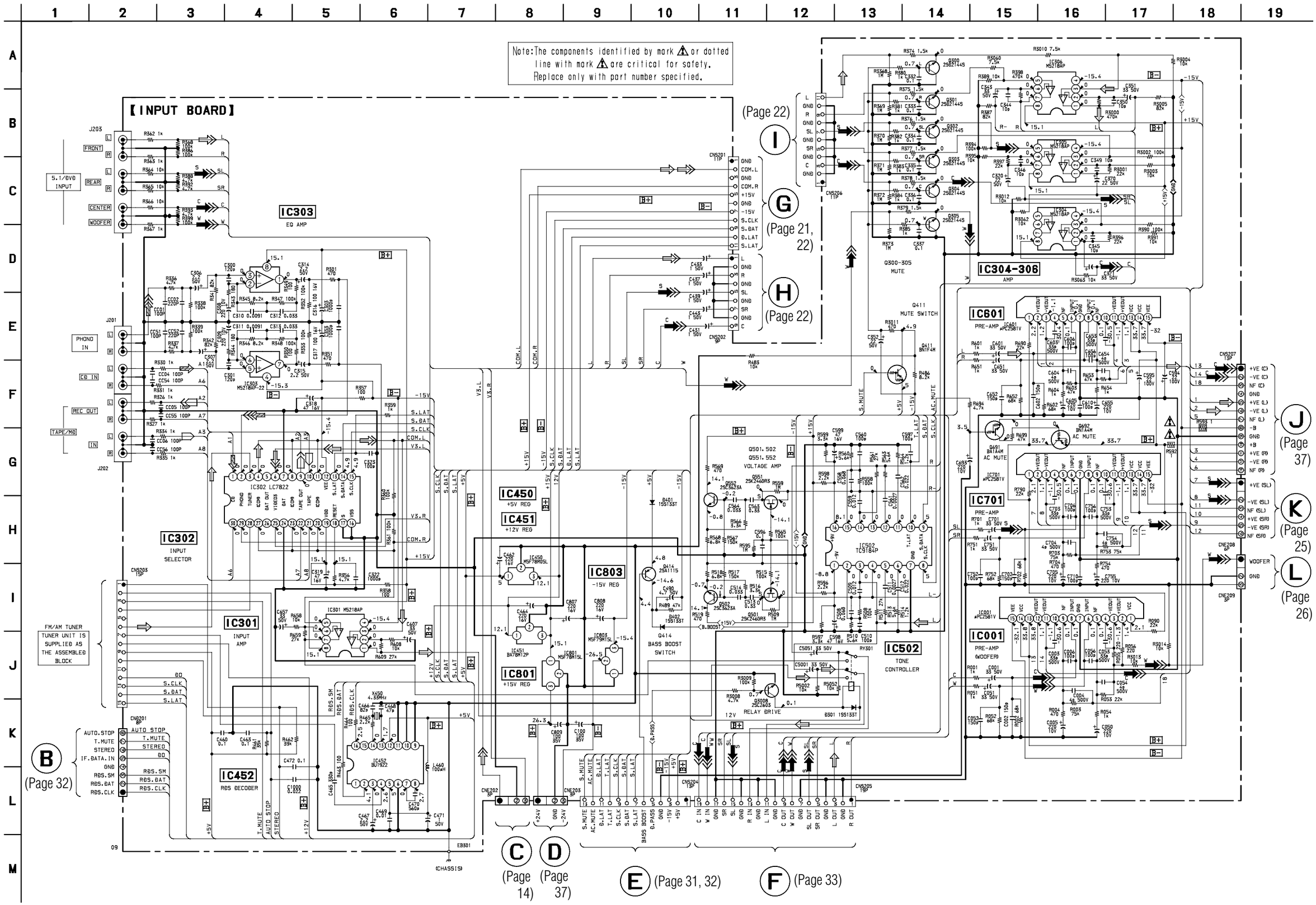


【VIÐEO (3) BOARÐ】



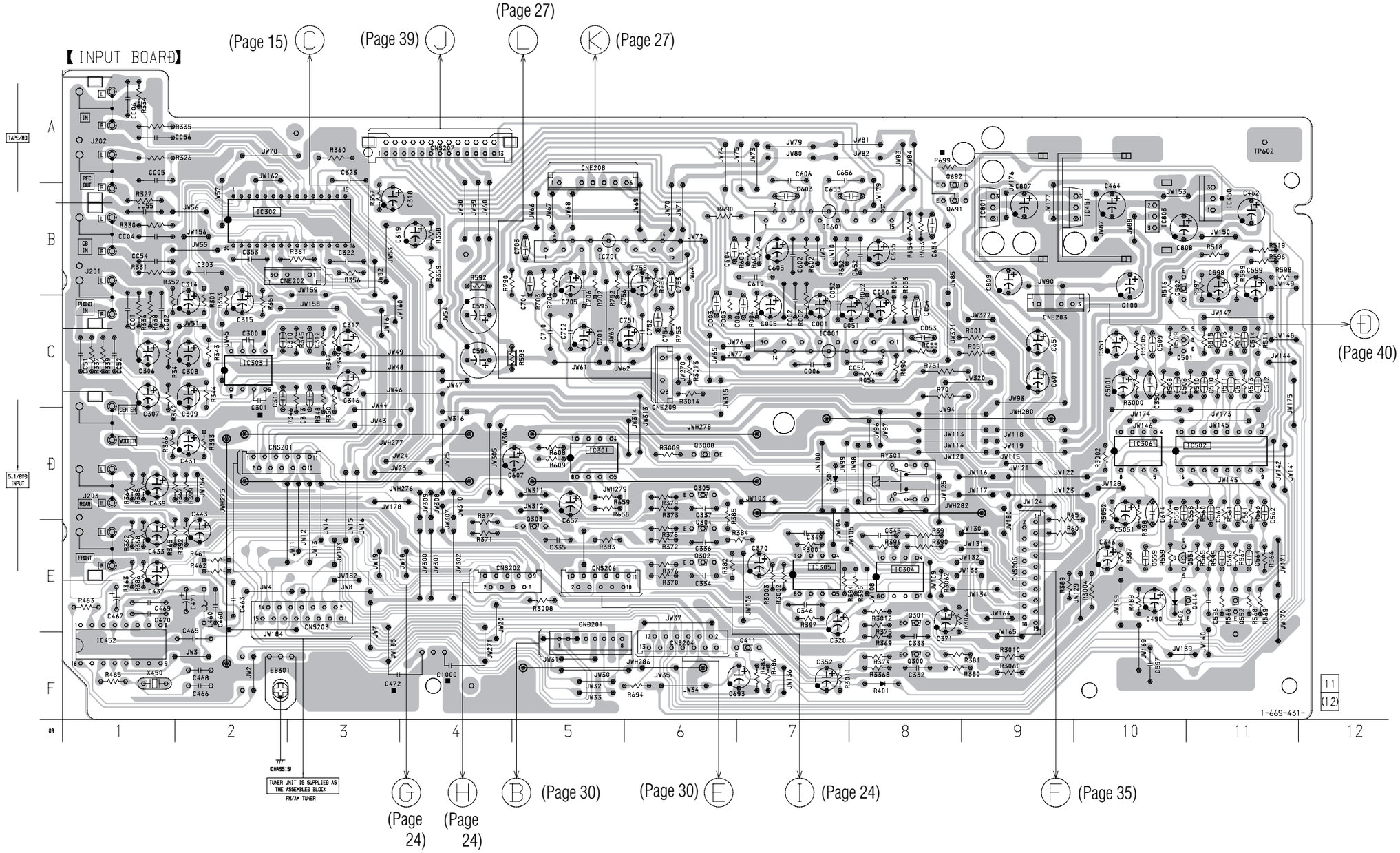
3-5. SCHEMATIC DIAGRAM – INPUT SECTION –

• See page 43 for IC Block Diagrams.



3-6. PRINTED WIRING BOARD – INPUT SECTION –

• See page 5 for Circuit Boards Location.

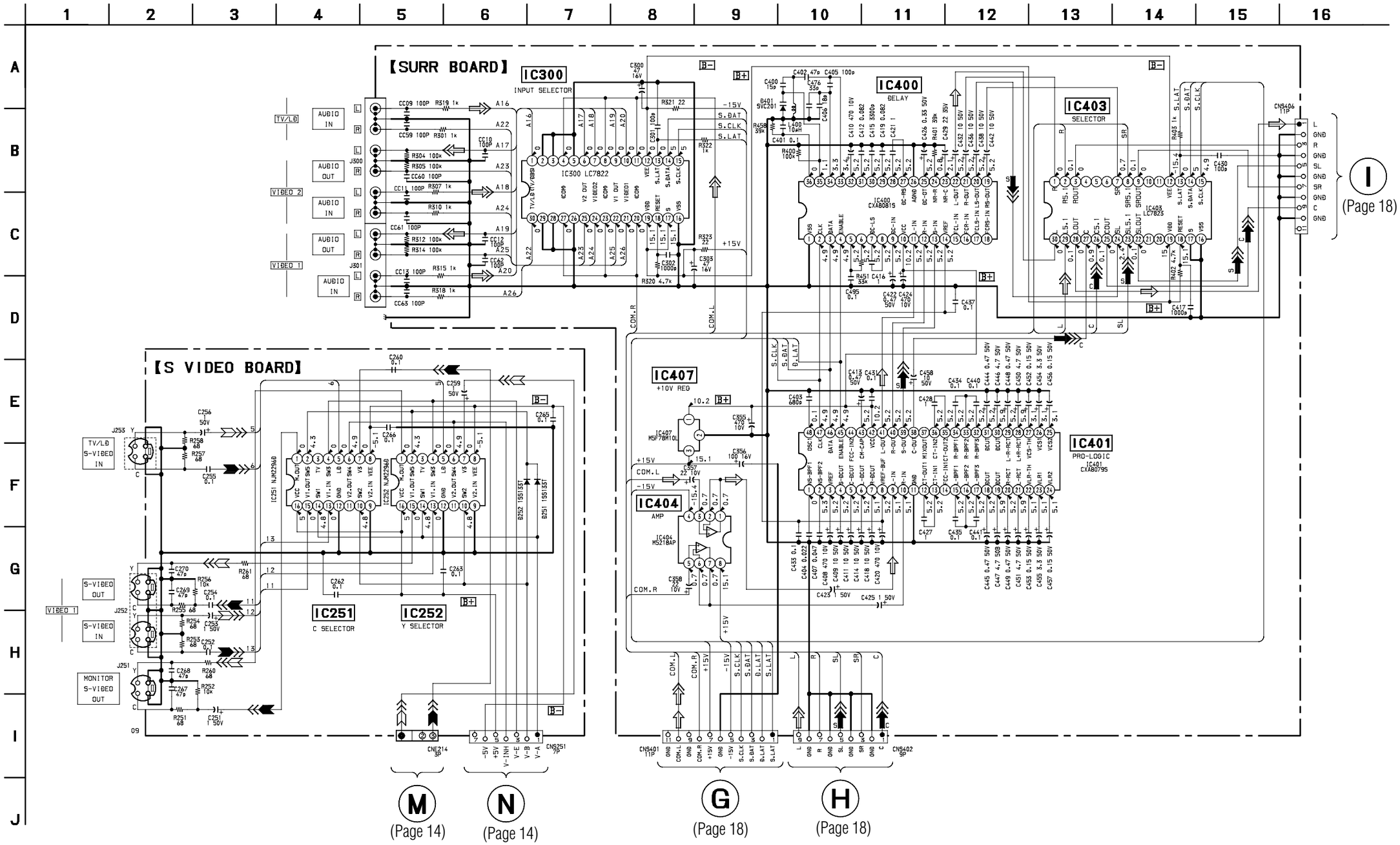


• **Semiconductor Location**

Ref. No.	Location
D301	D-7
D401	F-8
D402	E-10
IC001	C-7
IC301	D-5
IC302	B-2
IC303	C-2
IC304	E-8
IC305	E-7
IC306	D-10
IC450	B-11
IC451	B-10
IC452	F-1
IC502	D-11
IC601	B-7
IC701	B-5
IC801	B-9
IC803	B-10
Q300	F-8
Q301	E-8
Q302	E-6
Q303	E-5
Q304	E-6
Q305	D-6
Q411	F-7
Q414	E-11
Q501	C-10
Q502	B-10
Q551	E-10
Q552	E-11
Q691	B-8
Q692	B-8
Q3008	D-6

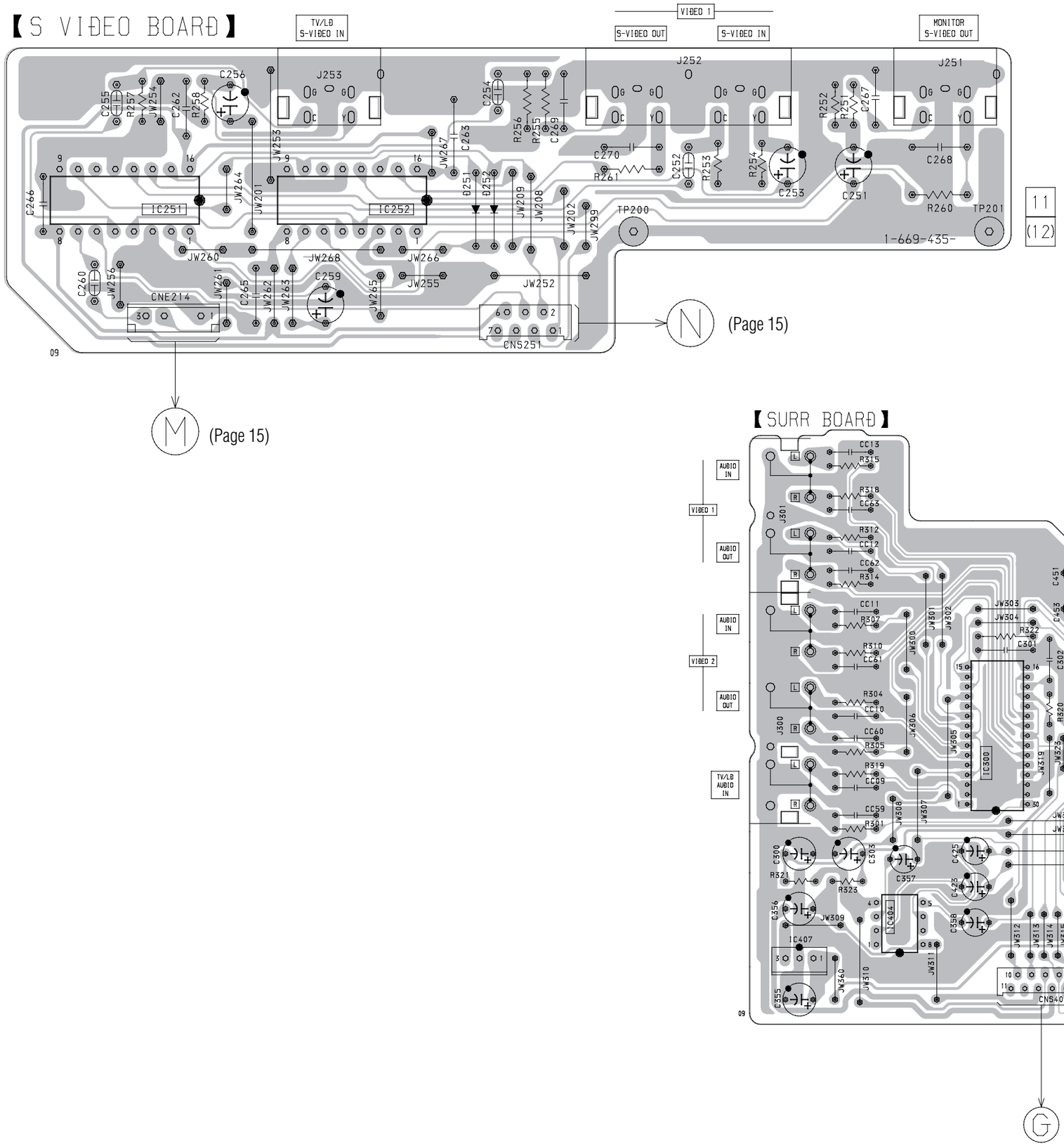
3-7. SCHEMATIC DIAGRAM – S-VIDEO SECTION –

• See page 43 for IC Block Diagrams.



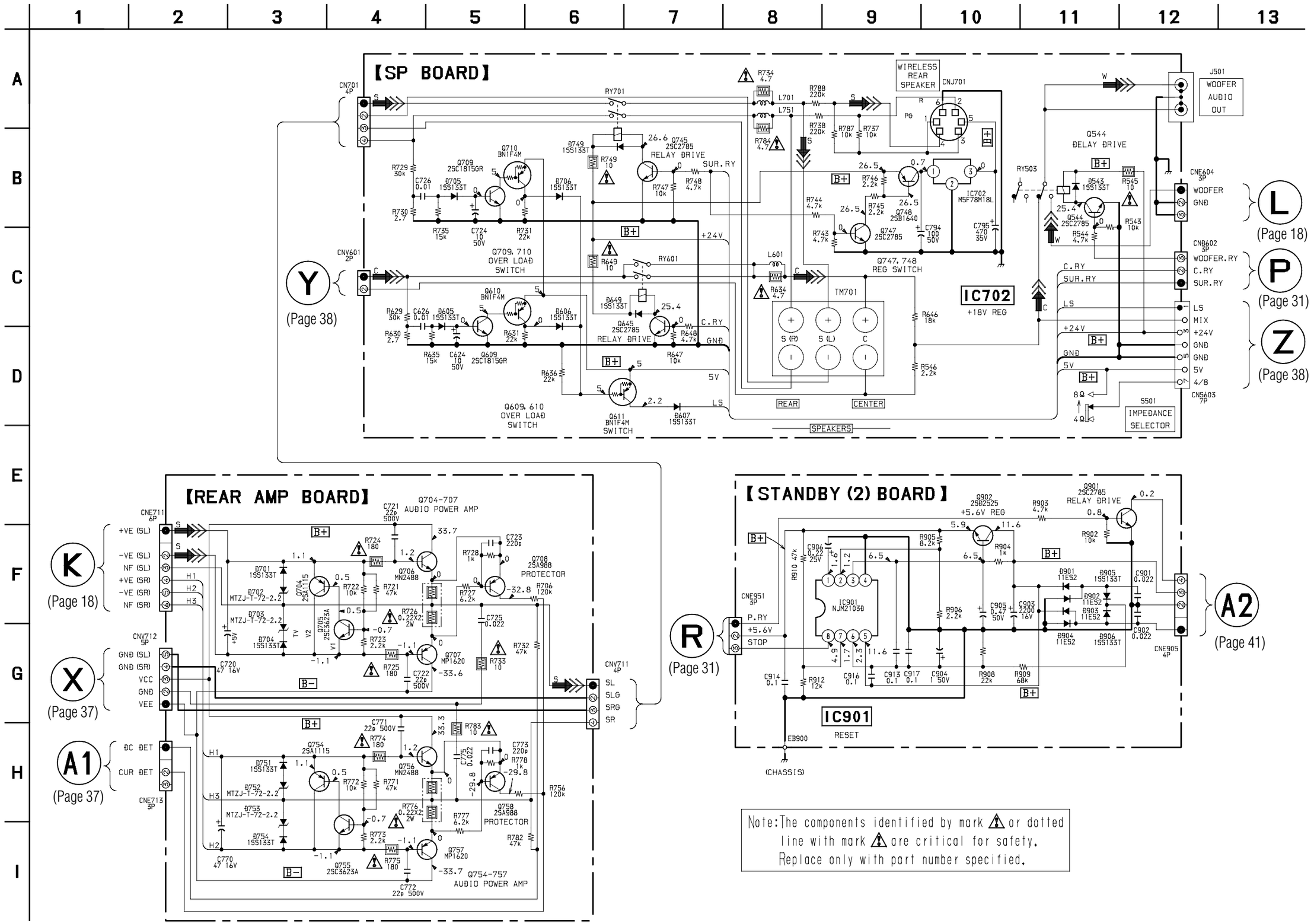
3-8. PRINTED WIRING BOARD – S-VIDEO SECTION –

• See page 5 for Circuit Boards Location.



3-9. SCHEMATIC DIAGRAM – SPEAKER SECTION –

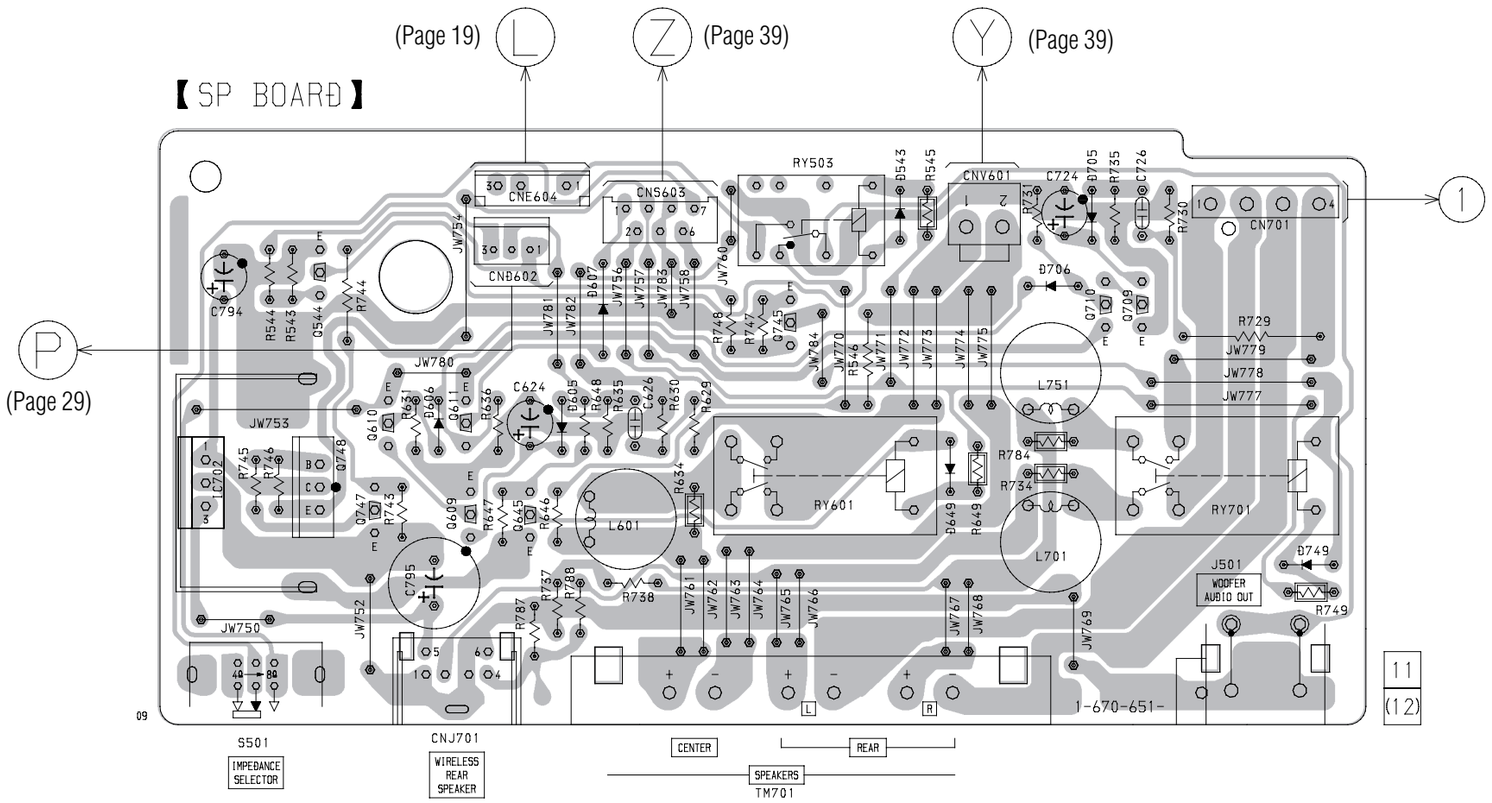
• See page 43 for IC Block Diagrams.

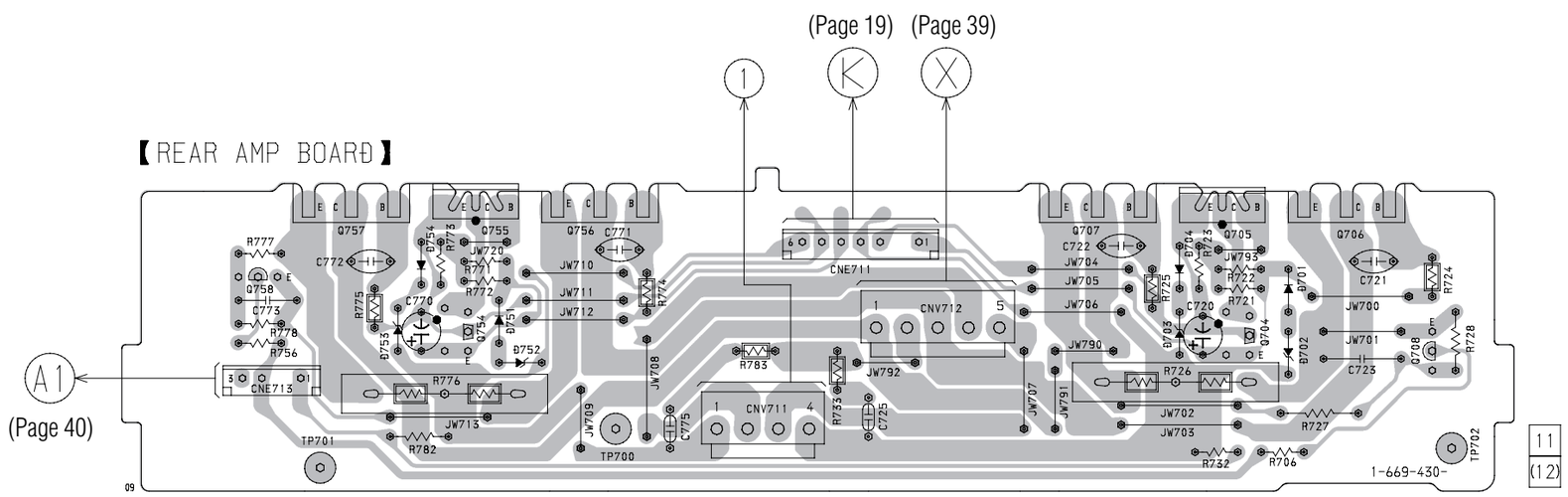


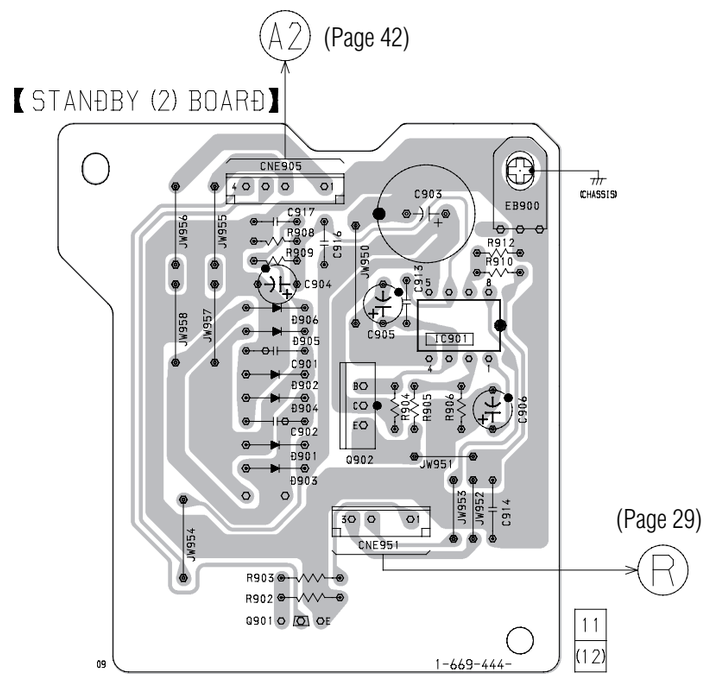
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

3-10. PRINTED WIRING BOARD – SPEAKER SECTION –

• See page 5 for Circuit Boards Location.





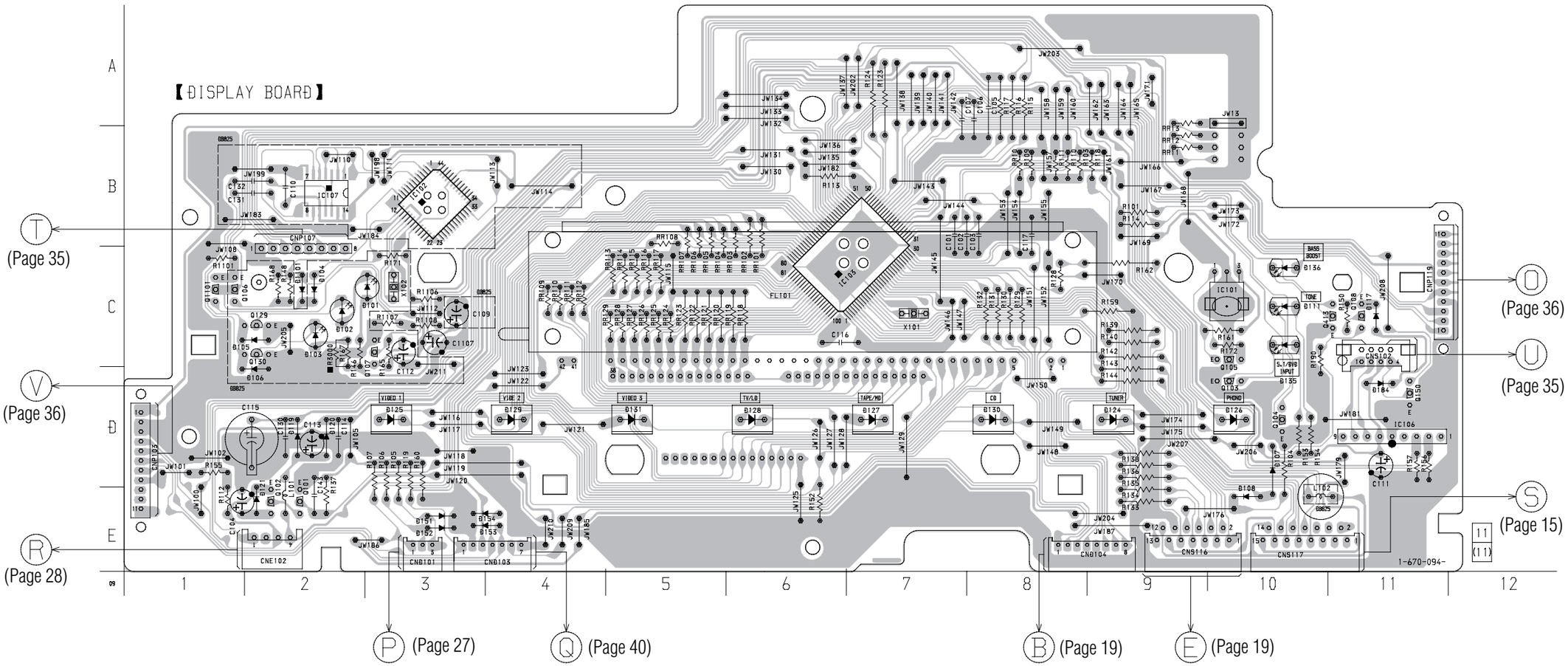


3-11. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 5 for Circuit Boards Location.

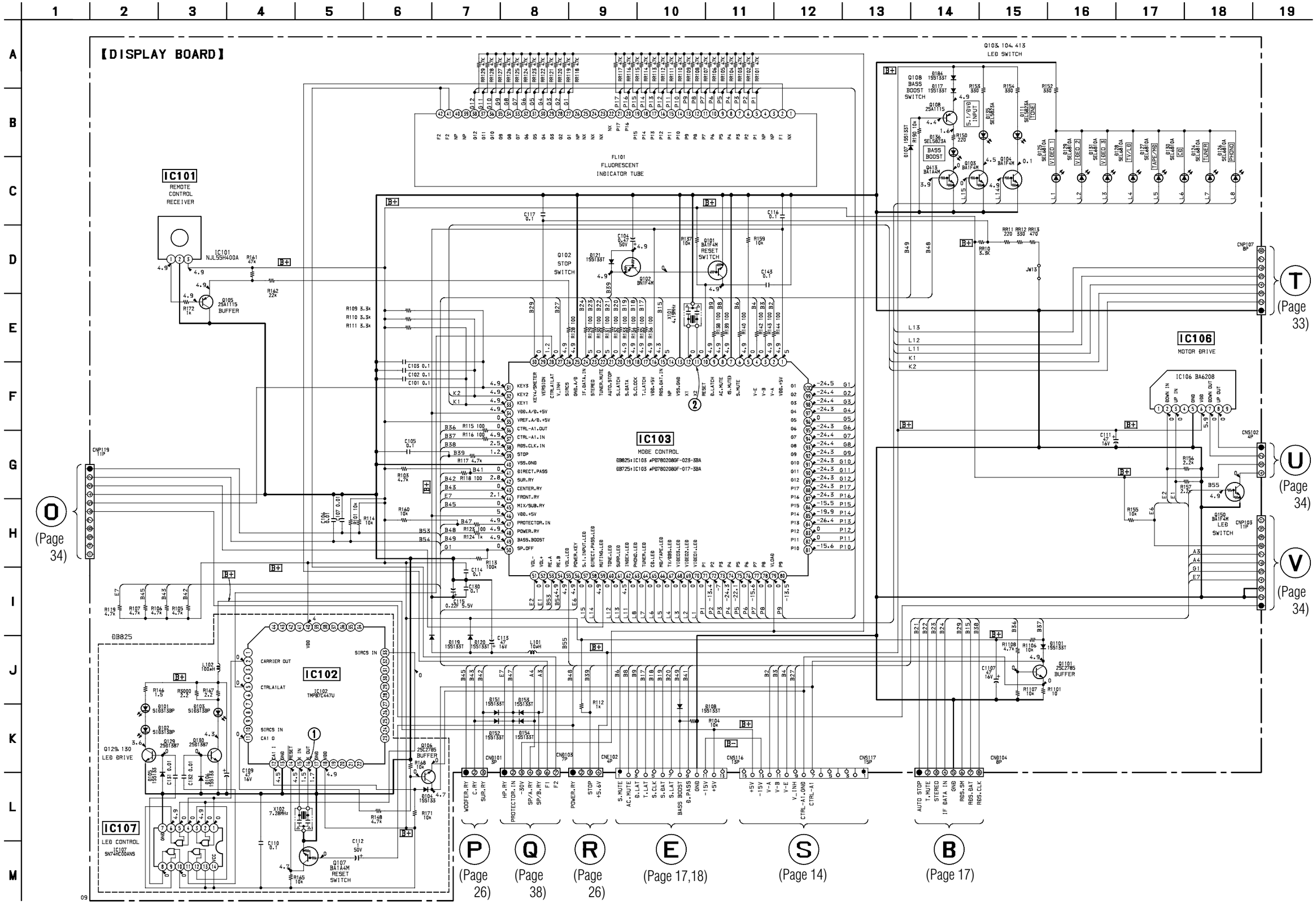
• **Semiconductor Location**

Ref. No.	Location
D101	C-3
D102	C-2
D103	C-2
D104	C-2
D105	C-2
D106	D-2
D107	D-10
D108	E-10
D111	C-10
D117	C-11
D119	D-2
D120	D-2
D121	E-2
D124	D-9
D125	D-3
D126	D-10
D127	D-7
D128	D-6
D129	D-4
D130	D-8
D131	D-5
D135	C-10
D136	C-10
D151	E-3
D152	E-3
D153	E-4
D154	E-4
D184	D-11
D1101	C-2
IC101	C-10
IC102	B-3
IC103	C-7
IC106	D-11
IC107	B-2
Q101	E-2
Q102	E-2
Q103	D-10
Q104	D-10
Q105	C-10
Q106	C-1
Q107	C-3
Q108	C-11
Q129	C-2
Q130	C-2
Q150	D-11
Q413	C-11
Q1101	C-1

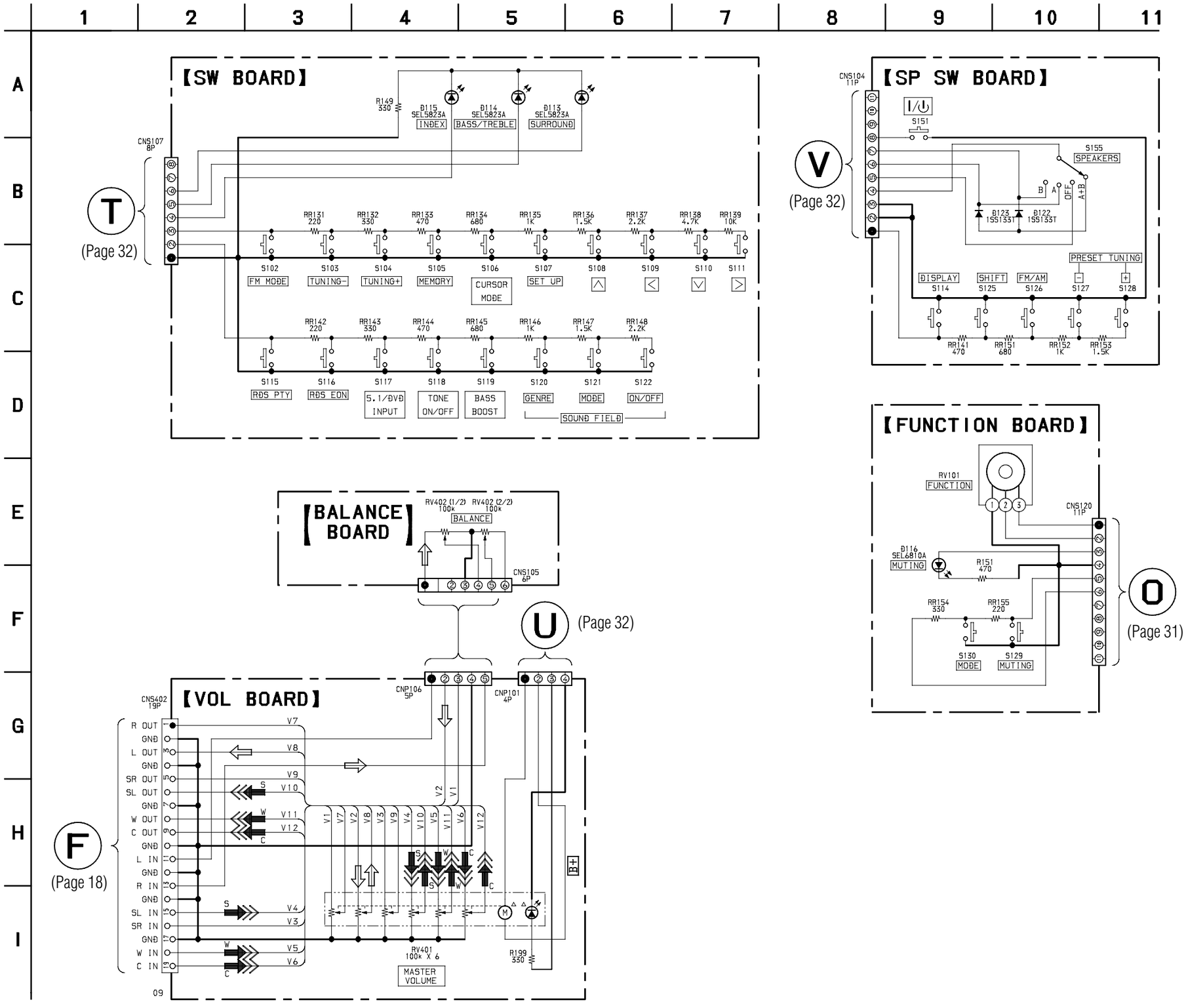


3-12. SCHEMATIC DIAGRAM – DISPLAY SECTION –

- See page 11 for Waveforms.
- See page 46 for IC Pin Function.

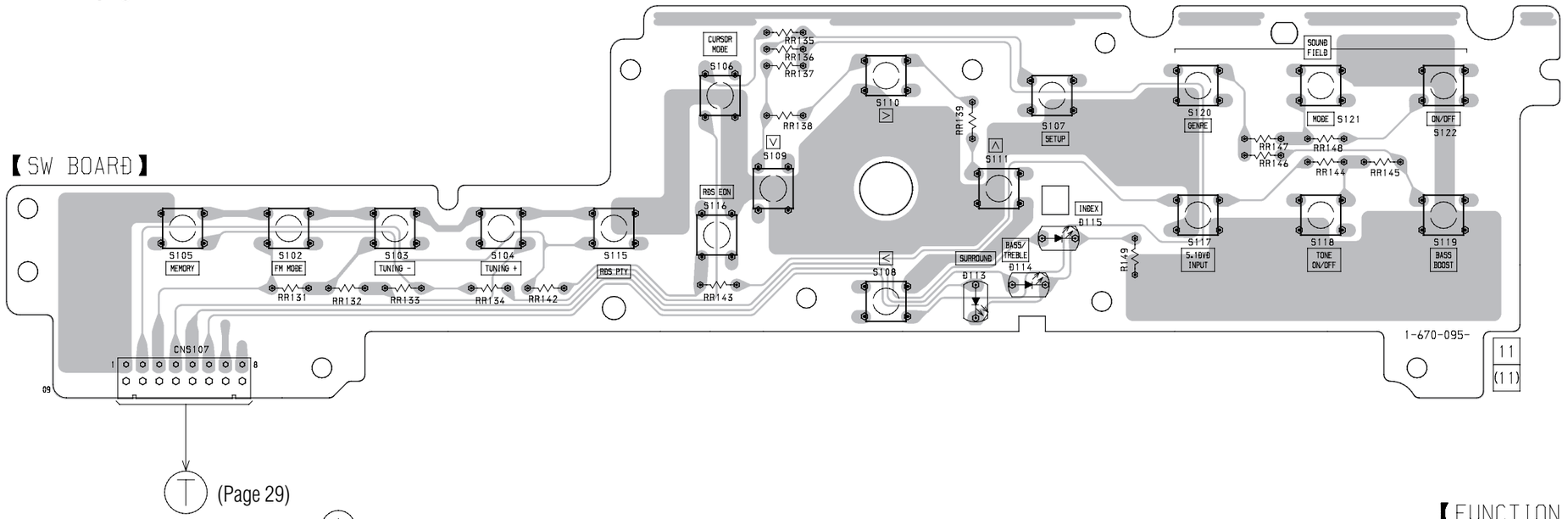


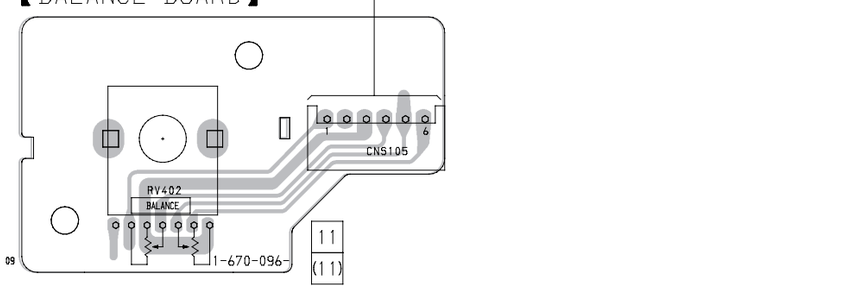
3-13. SCHEMATIC DIAGRAM – FRONT PANEL SECTION –

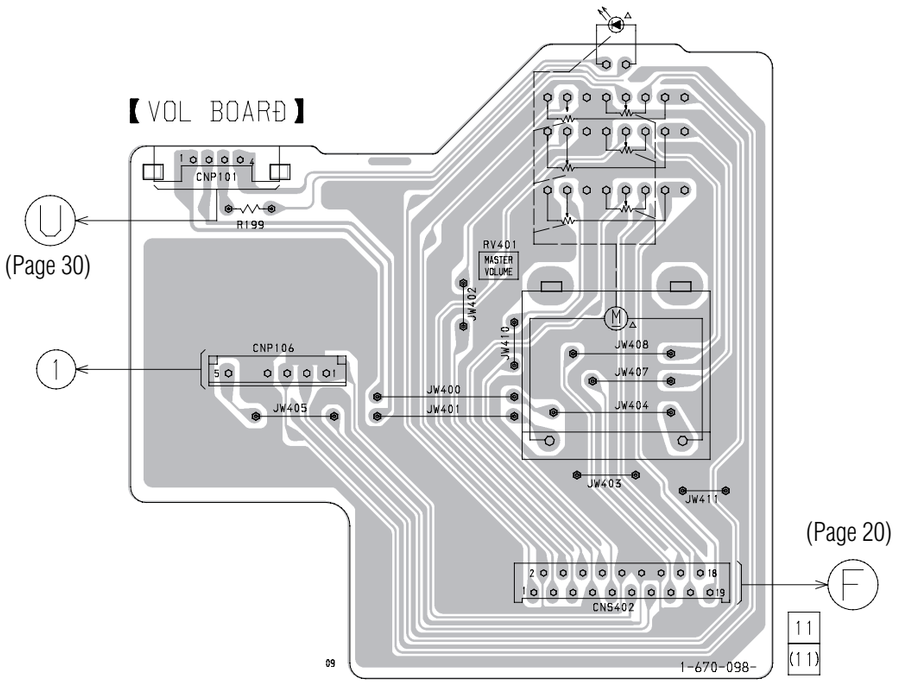


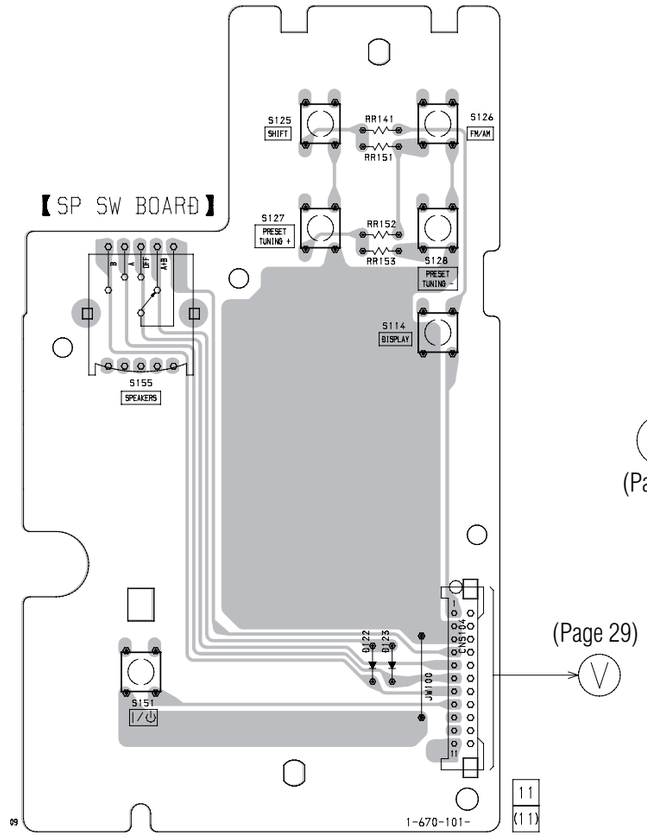
3-14. PRINTED WIRING BOARD – FRONT PANEL SECTION –

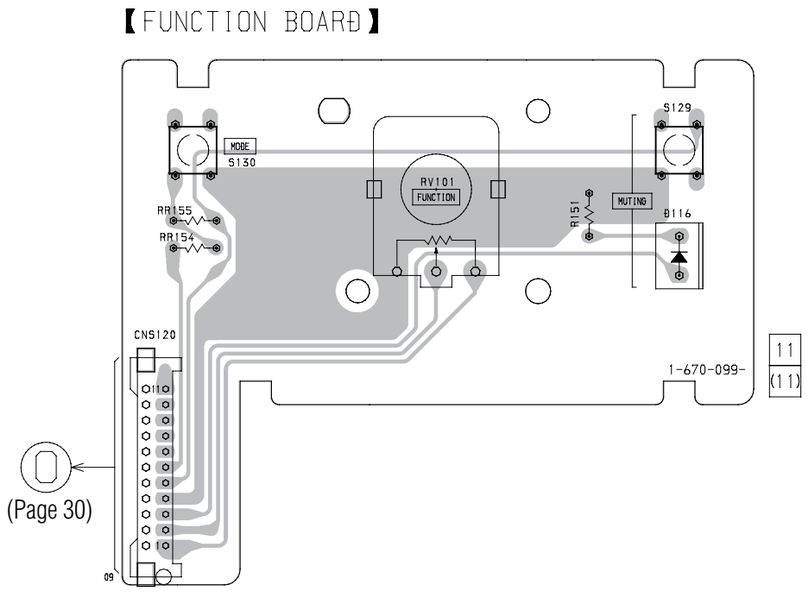
• See page 5 for Circuit Boards Location.



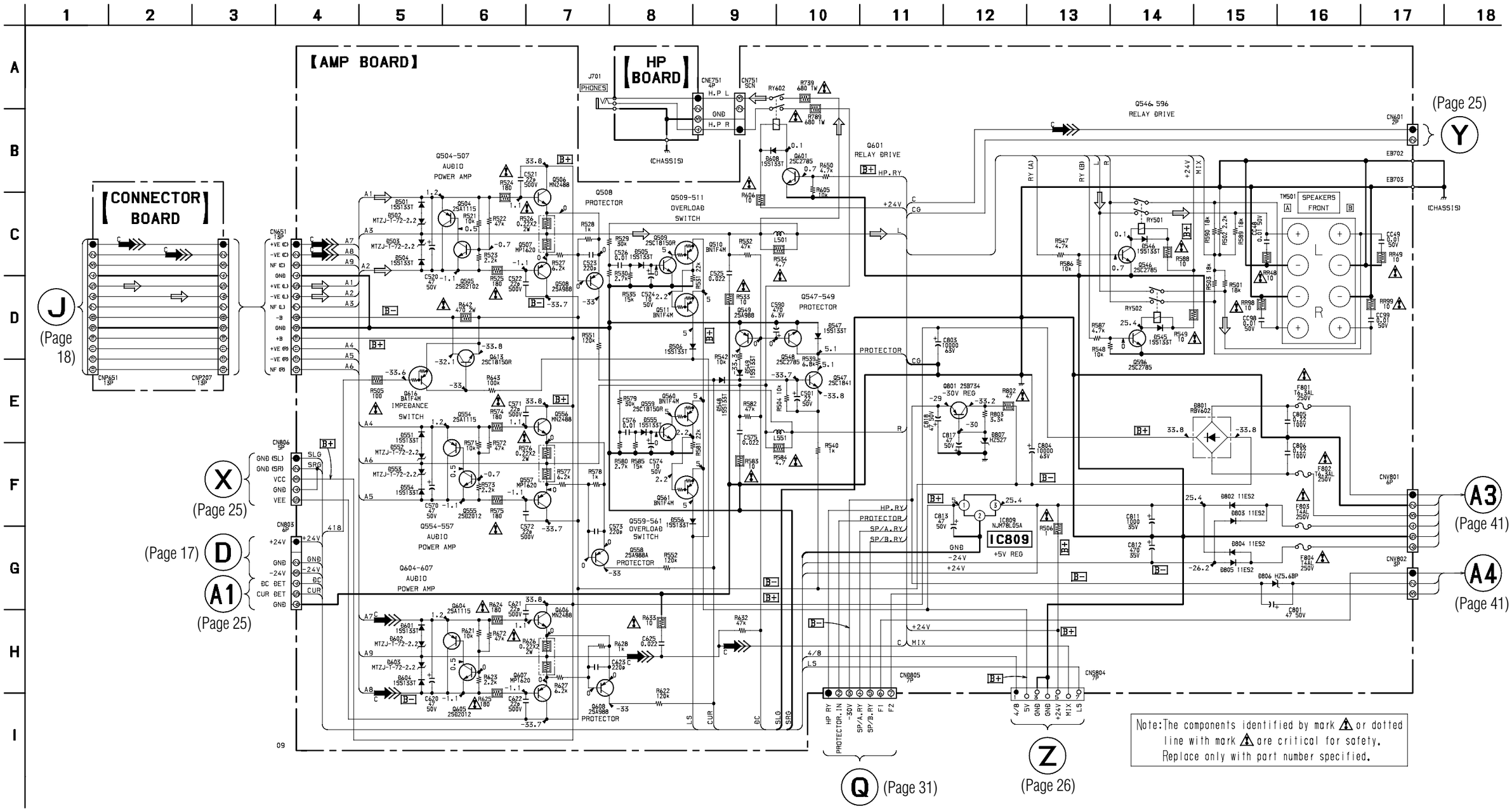






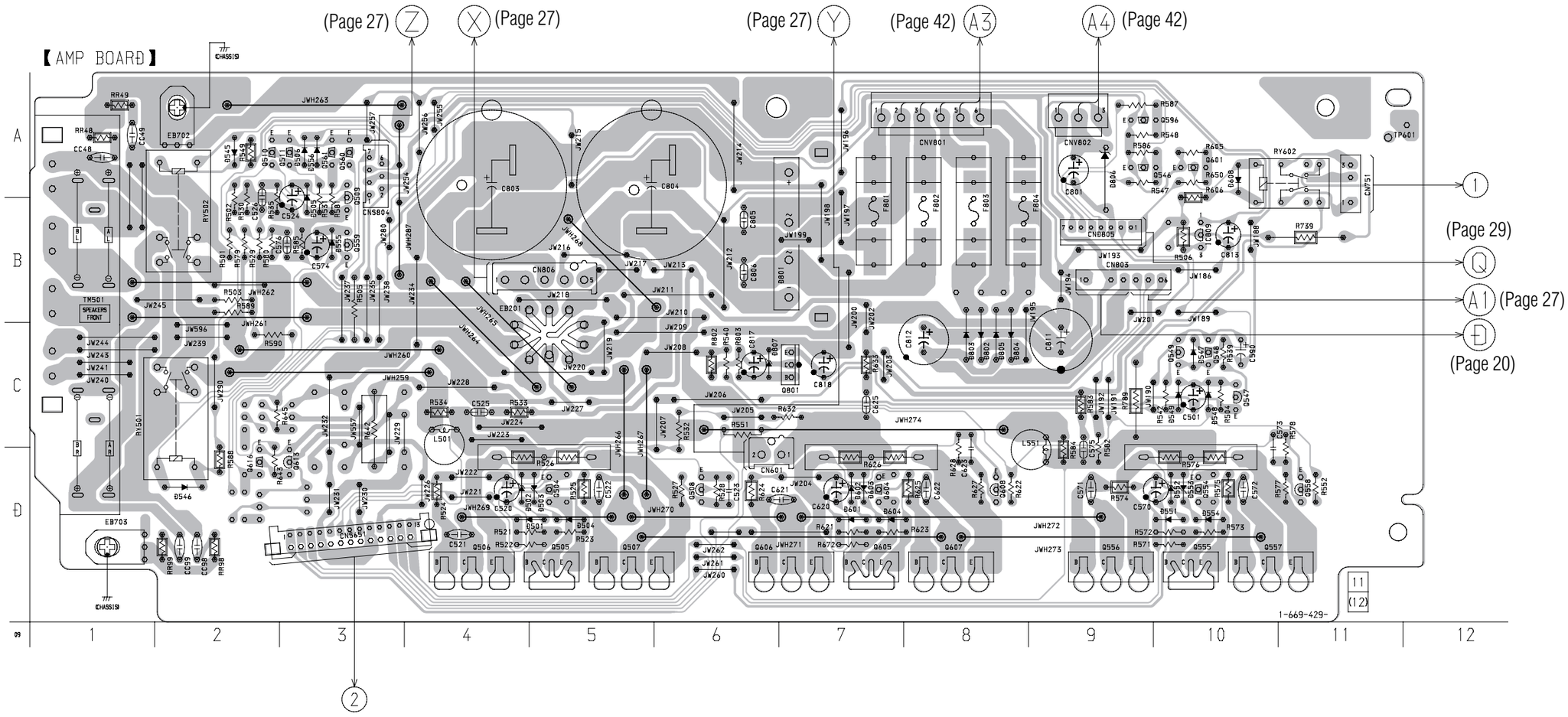


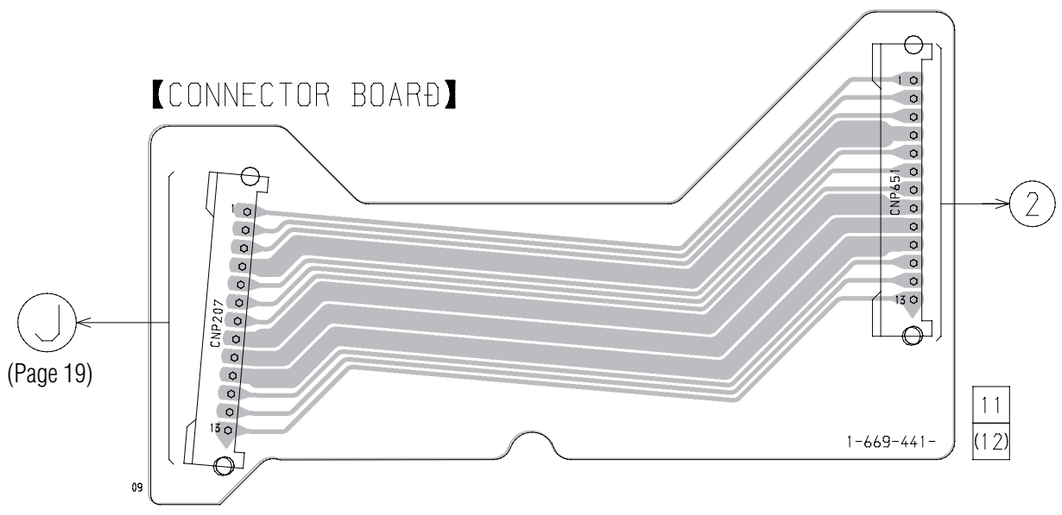
3-15. SCHEMATIC DIAGRAM – POWER AMP SECTION –

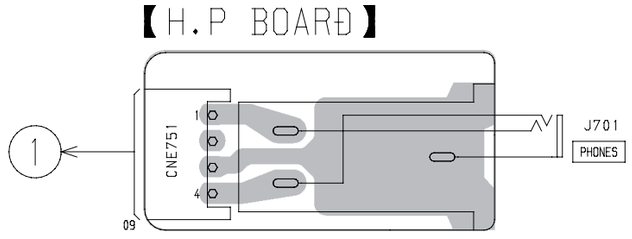


3-16. PRINTED WIRING BOARD – POWER AMP SECTION –

• See page 5 for Circuit Boards Location.



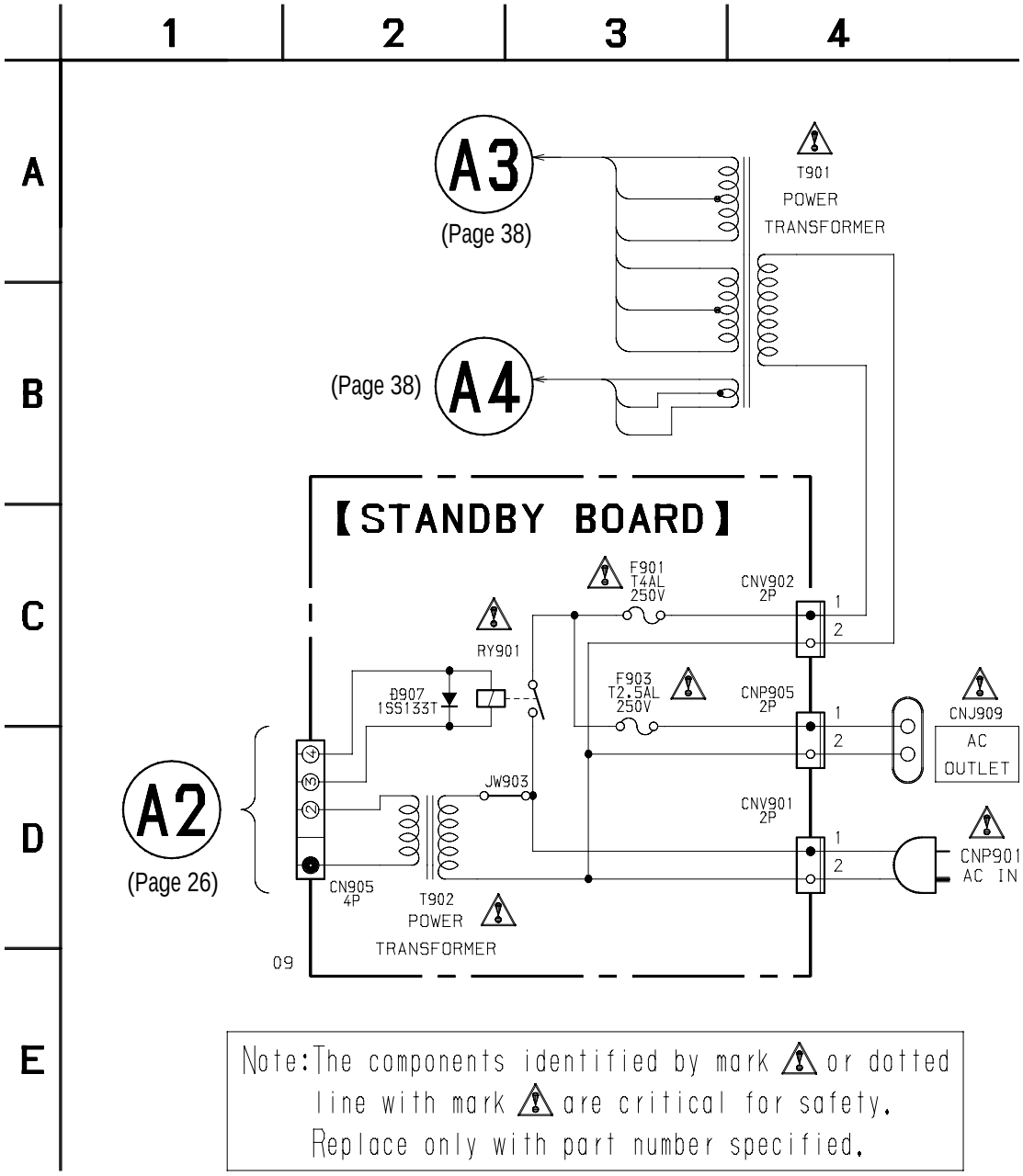




- **Semiconductor Location**

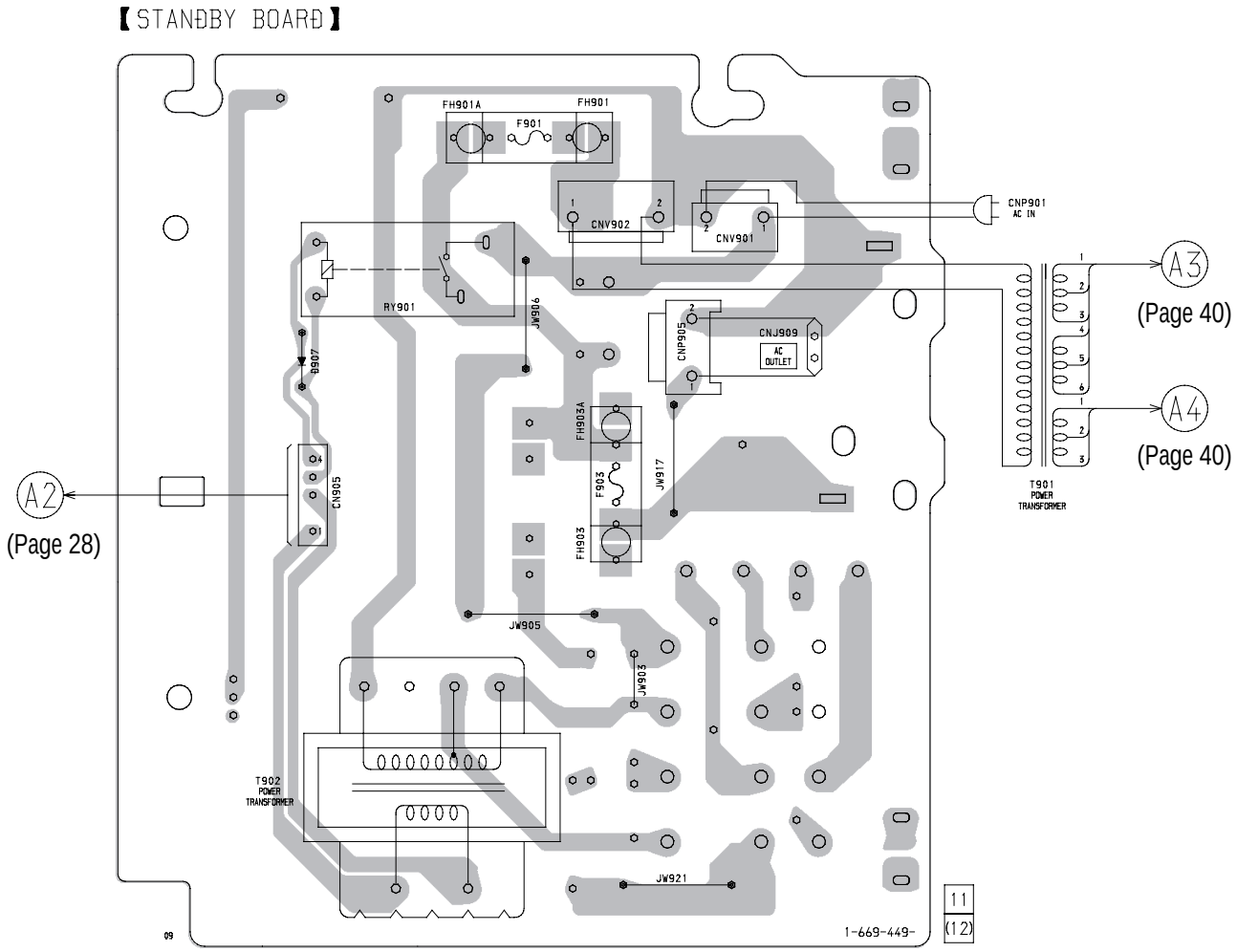
Ref. No.	Location
D501	D-5
D502	D-4
D503	D-5
D504	D-5
D505	B-3
D506	A-3
D545	A-2
D546	D-2
D547	C-10
D548	C-10
D549	C-10
D551	D-10
D552	D-10
D553	D-10
D554	D-10
D555	B-3
D556	A-3
D601	D-7
D602	D-7
D603	D-7
D604	D-7
D608	A-10
D801	B-7
D802	C-8
D803	C-8
D804	C-8
D805	C-8
D806	A-9
D807	C-6
IC809	B-10
Q504	D-5
Q505	D-5
Q506	D-4
Q507	D-5
Q508	D-6
Q509	B-3
Q510	A-2
Q511	A-3
Q546	A-9
Q547	C-10
Q548	C-10
Q549	C-10
Q554	D-10
Q555	D-10
Q556	D-9
Q557	D-10
Q558	D-11
Q559	B-3
Q560	A-3
Q561	A-3
Q596	A-9
Q601	A-10
Q604	D-7
Q605	D-7
Q606	D-8
Q607	D-7
Q608	D-8
Q613	D-3
Q616	D-2
Q801	C-7

3-17. SCHEMATIC DIAGRAM – TRANS SECTION –



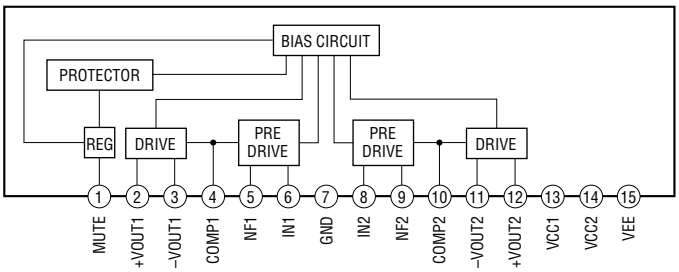
3-18. PRINTED WIRING BOARD – TRANS SECTION –

• See page 5 for Circuit Boards Location.

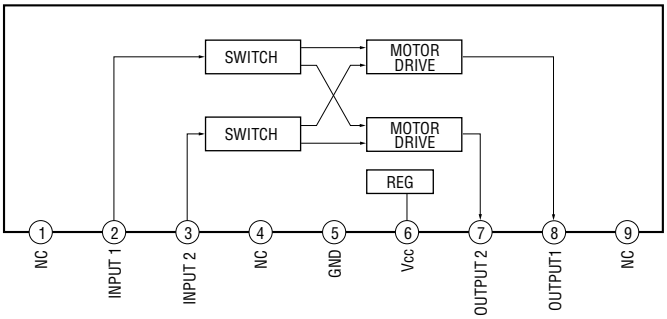


3-19. IC BLOCK DIAGRAMS

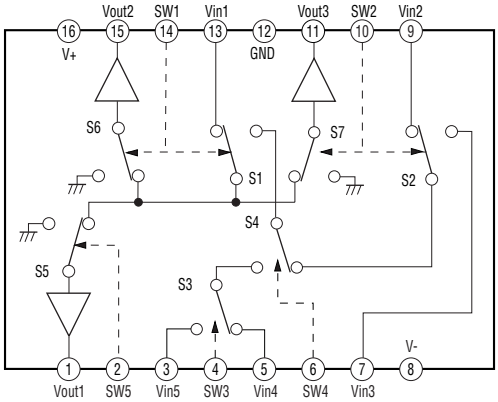
IC001, 601, 701 uPC2581V



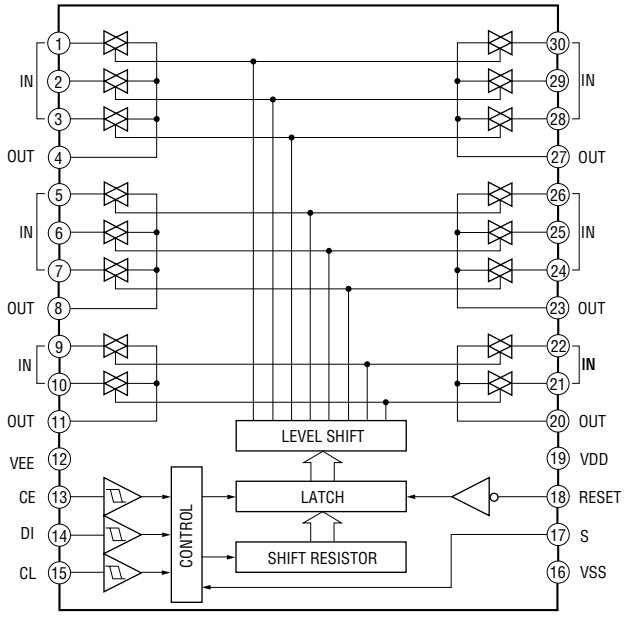
IC106 BA6208



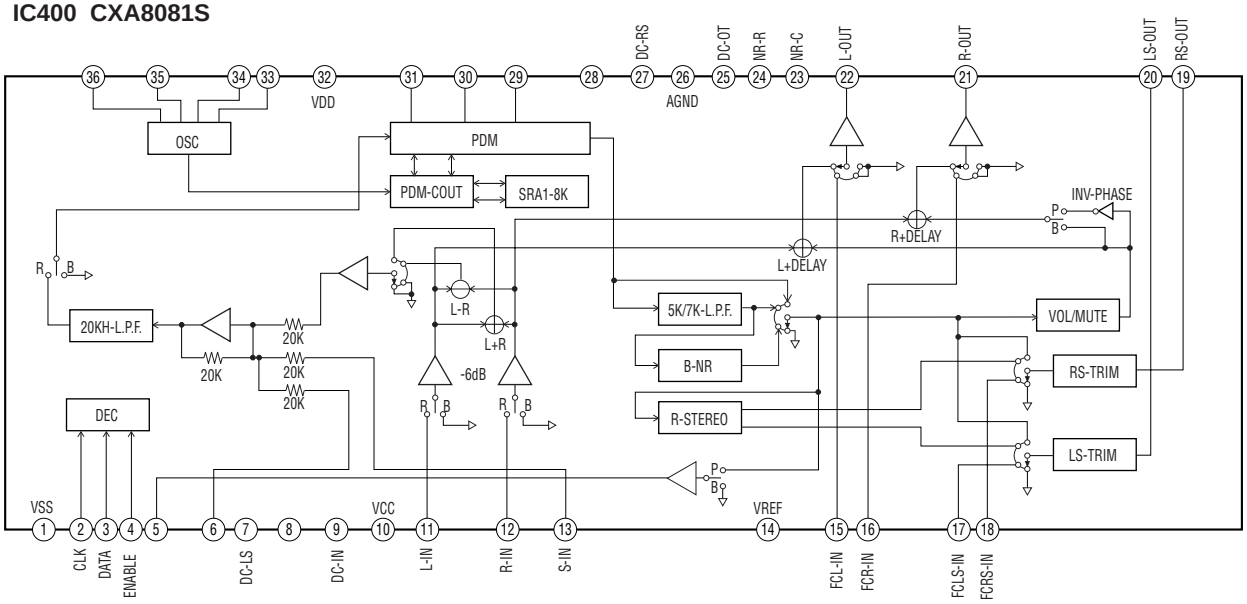
IC251 NJM2296D



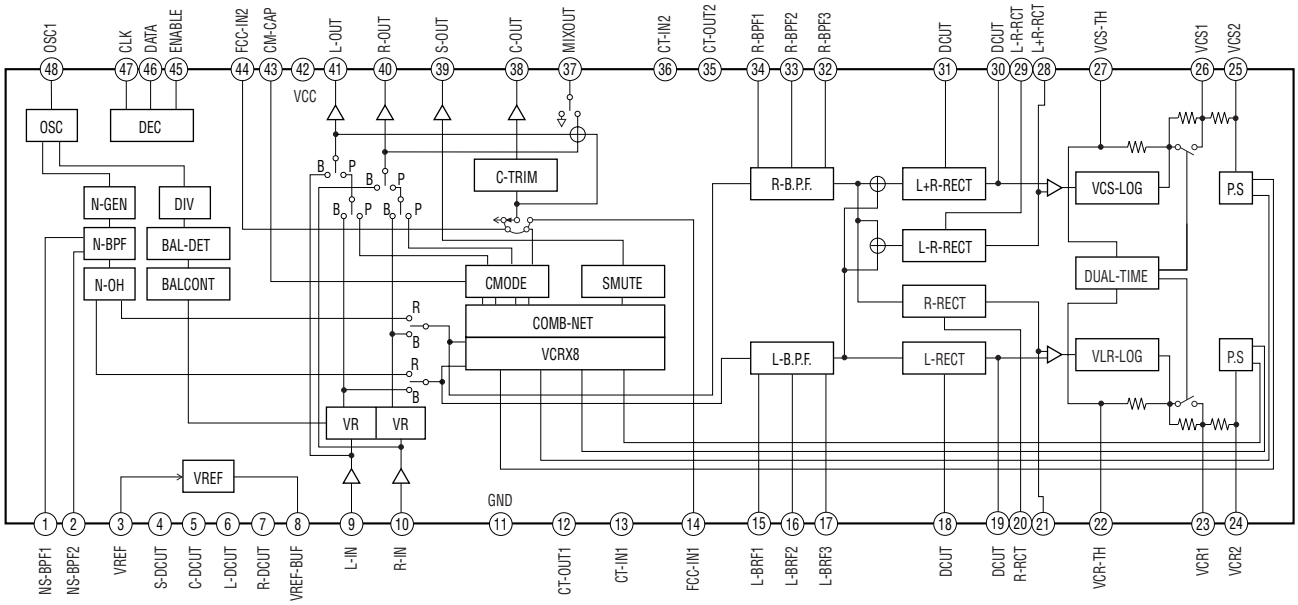
IC302 LC7822



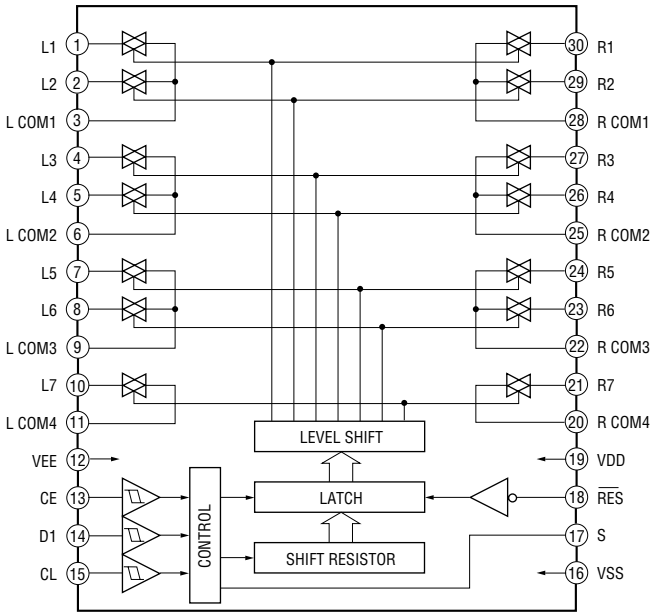
IC400 CXA8081S



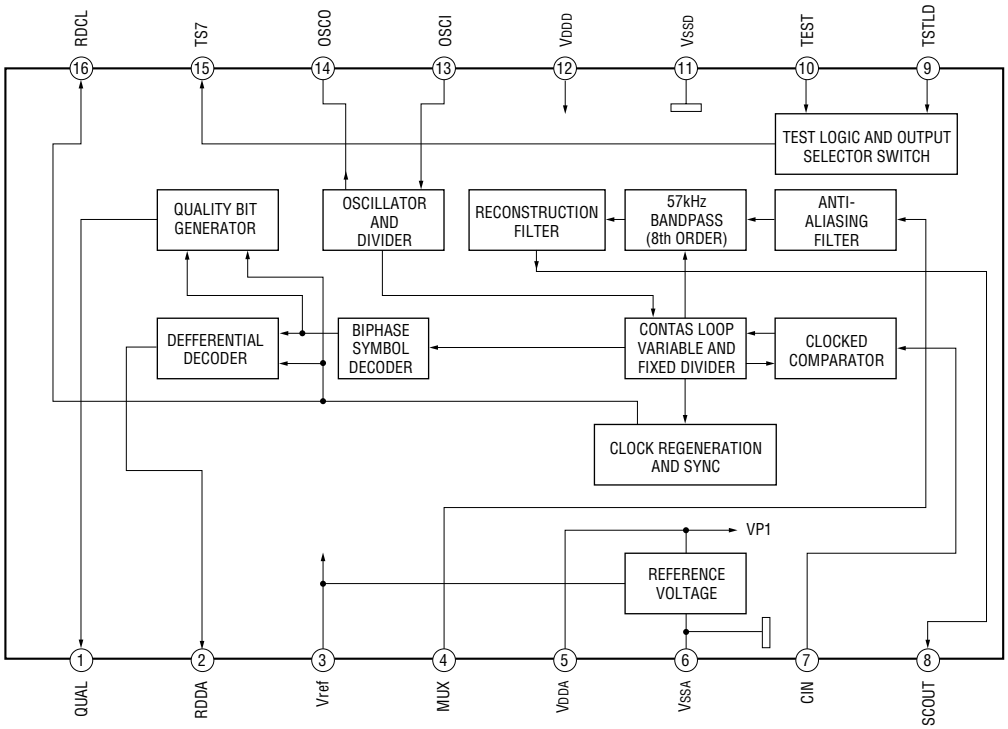
IC401 CXA8079S



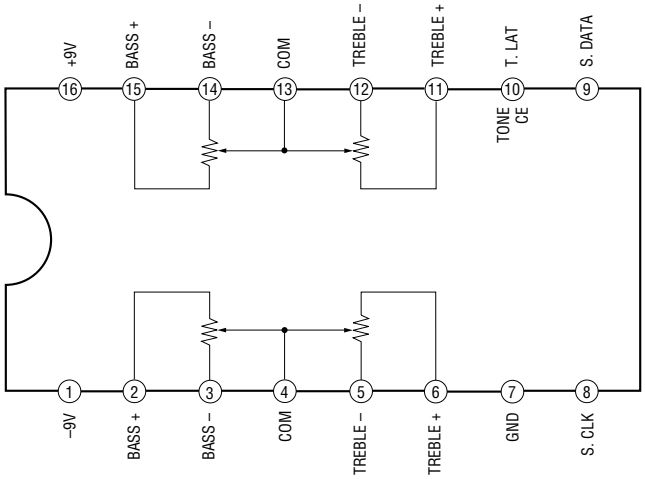
IC403 LC7823



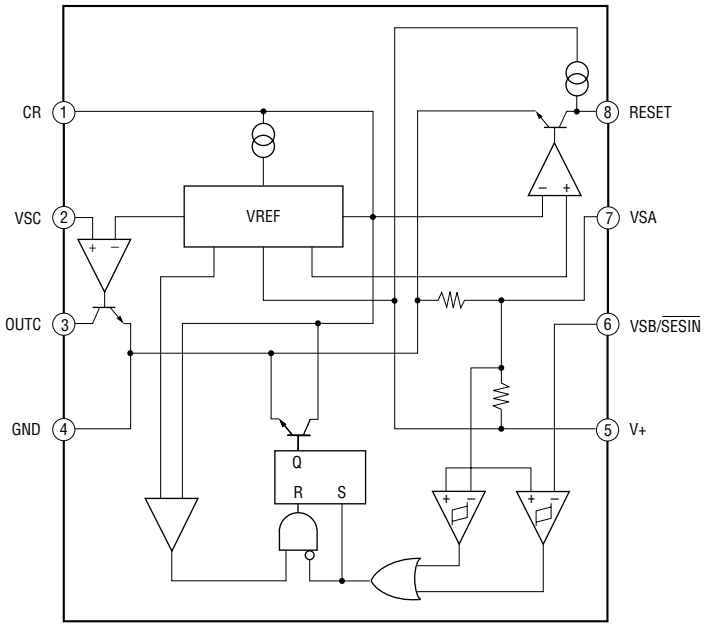
IC452 BU1922



IC502 TC9184P



IC901 NJM2103D



3-20. IC PIN FUNCTIONS

• IC103 uPD780208GF (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Function
1	VDD.+5V	—	Power Supply (+5 V)
2	V-A	O	Video IC SW1
3	V-B	O	Video IC SW2
4	V-E	O	Video IC SW3
5	—	O	Ground through resister
6	S.MUTE	O	S Mute
7	(S.MUTE)	I	Not used (Connected to ground)
8	AC.MUTE	O	A-class mute
9	D.LATCH	O	Dolby latch
10	RESET	I	System reset
11	X2	—	System clock (4.19 MHz)
12	X1	I	System clock (4.19 MHz)
13	VSS.GND	—	Ground
14	NP	—	Not used
15	RDS.DAT.IN	I	RDS data input
16	VDD.+5V	—	+5 V
17	T.LATCH	O	Tone latch
18	S.CLOCK	O	Serial clock
19	S.DATA	O	Serial data
20	S.LATCH	O	Serial latch
21	AUTO.STOP	I	Auto stop
22	TUNER MUTE	O	Tuner mute
23	STEREO	I	Stereo
24	IF.DATA.IN	I	Tuner data in
25	GND.A/D	—	A/D ground (0 V)
26	SIRCS	I	SIRCS input
27	V INH	O	Video IC SW4
28	CTRLA1LAT	O	S-LINK CONTROL A1 latch
29	VERSION	I	Version
30	KEY4/SMETER	I	A/D key 4
31	KEY3	I	A/D key 3
32	KEY2	I	A/D key 2
33	KEY1	I	A/D key 1
34	VDD.A/D.+5V	—	A/D power supply (+5 V)
35	VREF.A/D.+5V	I	A/D reference voltage (+5 V)
36	CTRL-A1.OUT	O	S-LINK CONTROL A1 data output
37	CTRL-A1.IN	I	S-LINK CONTROL A1 data input
38	RDS.CLK.IN	I	RDS clock input
39	STOP	I	STOP
40	VSS.GND	—	Ground

Pin No.	Pin Name	I/O	Function
41	DIRECT.PASS	O	Direct pass relay
42	SUR.RY	O	Surround relay
43	CENTER.RY	O	Center relay
44	FRONT.RY	O	Front relay
45	MIX/SUB.RY	O	Mix/sub relay
46	VDD.+5V	—	+5 V
47	PROTECTOR.IN	I	Protector in
48	POWER.RY	O	Power relay
49	BASS.BOOST	O	Bass boost
50	SP.OFF	I	Speaker off
51	VOL–	O	Volume –
52	VOL+	O	Volume +
53	RE.A	I	Function control A
54	RE.B	I	Function control B
55	VOL LED	O	Volume LED
56	POWER.KEY	I	Power switch in
57	5.1.INPUT. LED	O	5.1/DVD input LED
58	DIRECT.PASS.LED	O	Direct pass LED
59	MUTING.LED	O	Muting LED
60	TONE.LED	O	Tone LED
61	SURR.LED	O	Surround LED
62	INDEX.LED	O	Index LED
63	PHONO.LED	O	PHONO LED
64	TUNER.LED	O	TUNER LED
65	CD.LED	O	CD LED
66	MD/TAPE.LED	O	TAPE/MD LED
67	TV/DBS.LED	O	TV/LD LED
68	VIDEO3.LED	O	VIDEO 3 LED
69	VIDEO2.LED	O	VIDEO 2 LED
70	VIDEO1.LED	O	VIDEO 1 LED
71 to 78	P1 to P8	O	FL segment signal output
79	VLOAD	—	FIP pull down (–35 V)
80 to 88	P9 to P17	O	FL segment signal output
89 to 100	G12 to G1	O	FL gride signal output

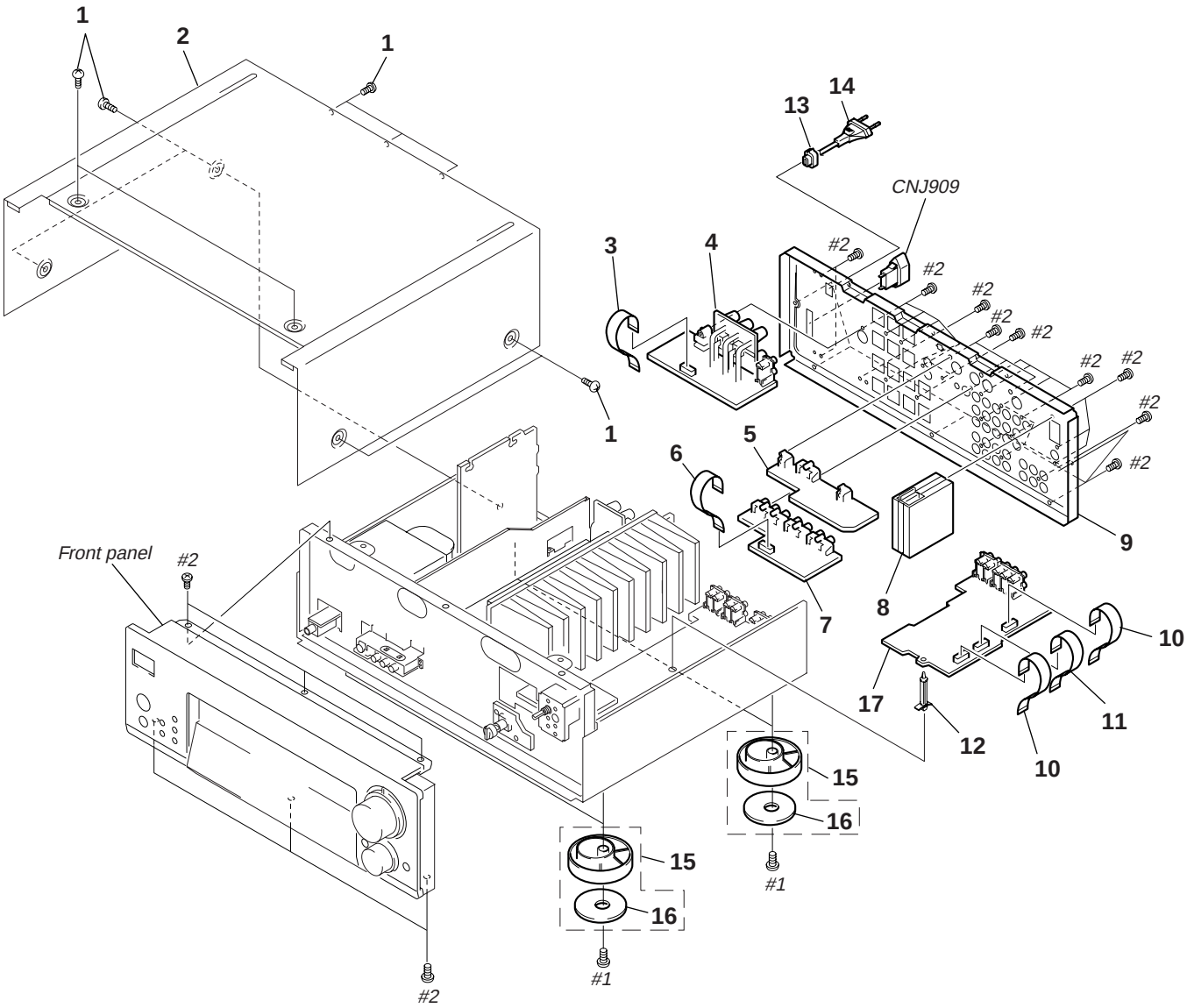
• Abbreviation
FL : Fluorescent indicator tube

SECTION 4
EXPLODED VIEWS

NOTE:
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

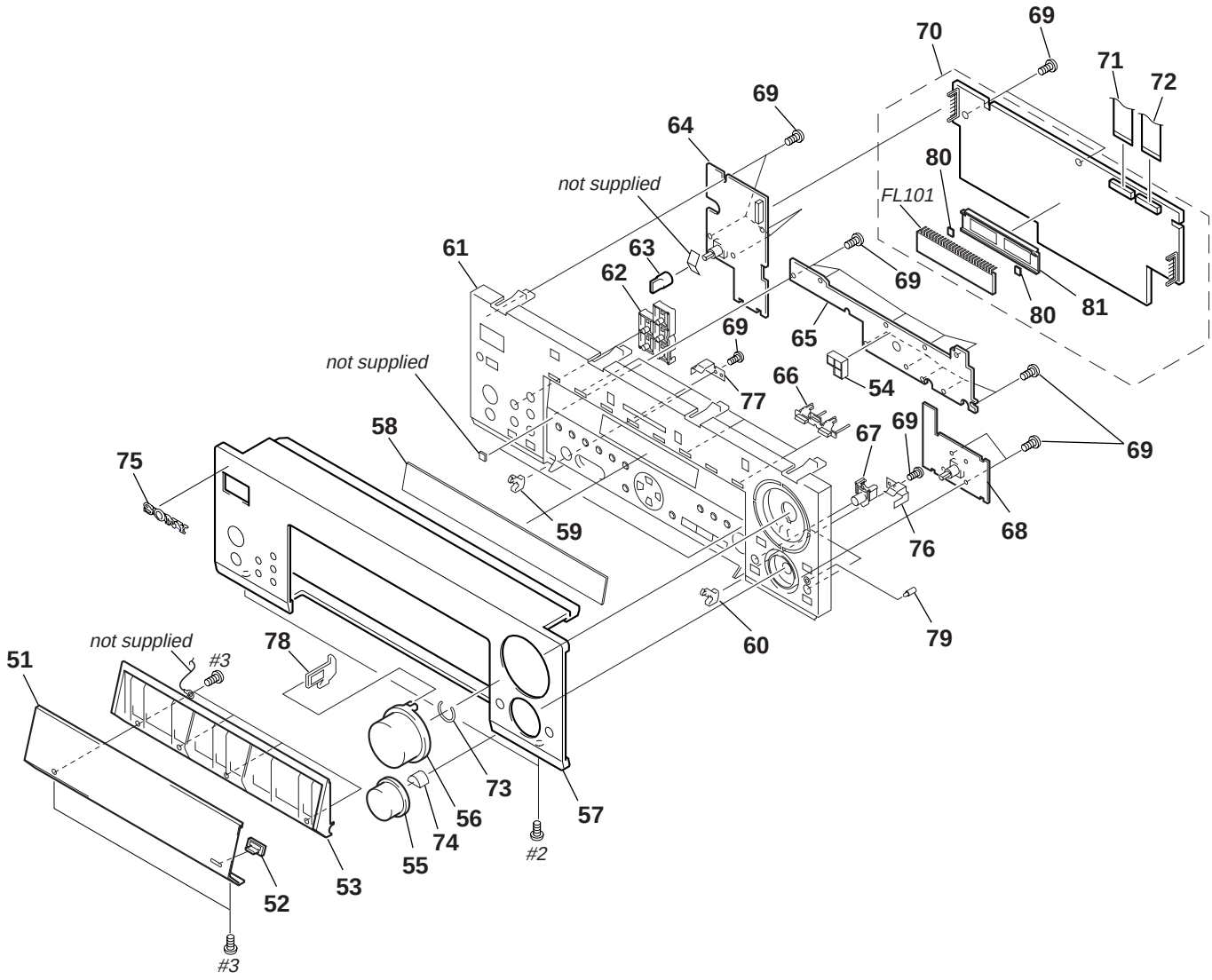
4-1. CASE AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-210-291-01	SCREW, TAPPING	
* 2	4-900-512-01	CASE (DB725)	
* 2	X-4950-431-1	CASE ASSY (DB825)	
3	1-769-877-11	WIRE (FLAT TYPE)(7 CORE)(90mm)	
* 4	A-4417-192-A	SP BOARD, COMPLETE	
* 5	A-4407-581-A	S VIDEO BOARD, COMPLETE	
6	1-769-875-11	WIRE (FLAT TYPE)(7 CORE)(70mm)	
* 7	1-670-097-11	VIDEO BOARD	
8	1-693-409-11	TUNER	
* 9	4-900-493-01	PANEL, BACK (DB725)	

Ref. No.	Part No.	Description	Remark
* 9	4-900-493-11	PANEL, BACK (DB825)	
10	1-769-941-11	WIRE (FLAT TYPE)(11 CORE)	
11	1-769-908-11	WIRE (FLAT TYPE)(9 CORE)	
* 12	4-924-098-31	HOLDER, PC BOARD	
* 13	3-703-244-00	BUSHING (2104), CORD	
⚠14	1-769-744-11	CORD, POWER	
15	X-4949-523-1	FOOT ASSY (F50180S)	
16	4-970-124-01	CUSHION (F50180S)	
* 17	A-4407-575-A	SURR BOARD, COMPLETE	
⚠CNJ909	1-526-794-11	OUTLET, AC (AC OUTLET)	

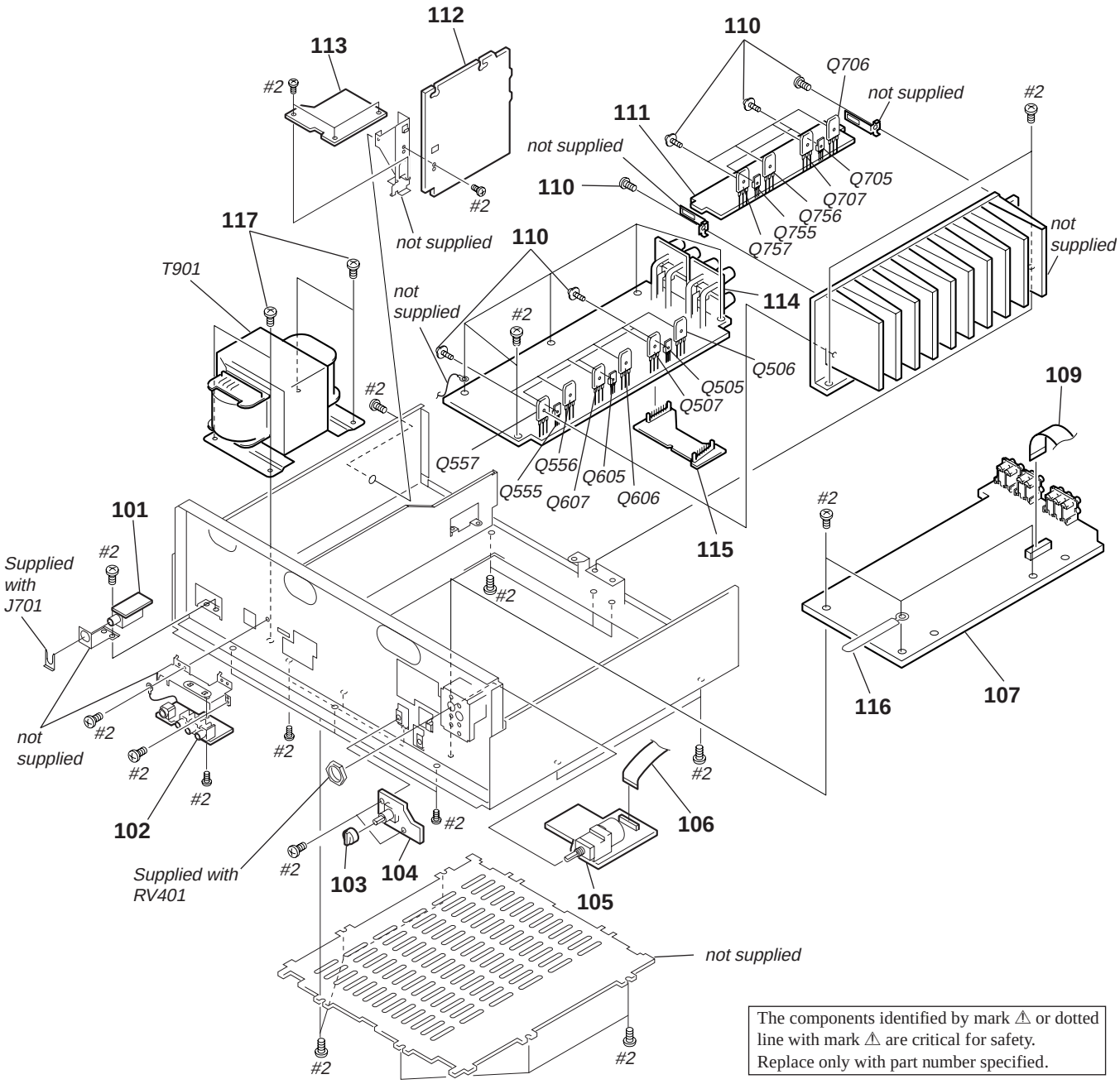
4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-900-570-11	ESCUTCHEON (A-LID)	
52	4-900-492-01	KNOB (LID)	
* 53	4-900-569-01	ESCUTCHEON (M-LID)	
* 54	4-900-579-01	COVER (STI)	
55	X-4948-601-1	KNOB (FUNC) ASSY	
56	X-3375-592-1	KNOB (VOL) ASSY	
57	4-900-568-11	PANEL, FRONT (DB725)	
57	4-900-568-21	PANEL, FRONT (DB825)	
58	4-900-566-11	WINDOW	
59	4-900-572-01	FULCRUM (L)	
60	4-900-571-01	FULCRUM (R)	
61	X-3375-589-1	BASE ASSY, PANEL	
62	4-900-563-01	BUTTON (5)	
63	4-957-383-01	KNOB (F14)	
* 64	1-670-101-11	SP SWITCH BOARD	
* 65	1-670-095-11	SW BOARD	
66	4-900-565-01	INDICATOR (2)	

Ref. No.	Part No.	Description	Remark
67	4-900-491-01	BUTTON (MUTE)	
* 68	1-670-099-11	FUNCTION BOARD	
69	4-951-620-01	SCREW (2.6X8), +BVTP	
* 70	A-4414-144-A	DISPLAY BOARD, COMPLETE (DB725)	
* 70	A-4414-171-A	DISPLAY BOARD, COMPLETE (DB825)	
71	1-783-777-11	WIRE (FLAT TYPE)(13 CORE)	
72	1-773-024-11	WIRE (FLAT TYPE)(15 CORE)(320mm)	
73	3-350-426-01	SPRING, RING	
74	3-703-466-00	SPRING (6600)	
75	4-942-568-41	EMBLEM (NO.5), SONY	
76	4-900-577-01	SPRING (1)(R)	
77	4-900-576-01	SPRING (1)(L)	
78	4-998-207-11	INDICATOR (VOL)	
79	4-999-431-01	LENS, LED	
* 80	4-921-941-01	CUSHION (FL)	
* 81	3-386-245-11	HOLDER (FL)	
FL101	1-517-770-11	INDICATOR TUBE, FLUORESCENT	

4-3. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 101	1-669-443-11	H.P BOARD	
* 102	1-670-100-11	VIDEO (3) BOARD	
103	4-900-500-01	KNOB (BAL)	
* 104	1-670-096-11	BALANCE BOARD	
* 105	1-670-098-11	VOLUME BOARD	
106	1-773-110-11	WIRE (FLAT TYPE)(19 CORE)	
* 107	A-4414-176-A	INPUT BOARD, COMPLETE	
109	1-773-008-11	WIRE (FLAT TYPE)(15 CORE)(140mm)	
110	3-905-609-11	SCREW (TRANSISTOR)	
* 111	A-4414-843-A	REAR AMP BOARD, COMPLETE	
* 112	1-669-449-11	STANDBY BOARD	
* 113	A-4407-589-A	STANDBY (2) BOARD, COMPLETE	
* 114	A-4414-175-A	AMP BOARD, COMPLETE (DB825)	
* 114	A-4417-193-A	AMP BOARD, COMPLETE (DB725)	
* 115	1-669-441-11	CONNECTOR BOARD	
116	3-703-397-01	STOPPER, WIRING	
117	4-900-386-01	SCREW	

Ref. No.	Part No.	Description	Remark
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q705	8-729-209-15	TRANSISTOR 2SD2012	
Q706	8-749-010-25	IC MN2488-OPY-M	
Q707	8-749-010-26	IC MP1620-OPY-M	
Q755	8-729-209-15	TRANSISTOR 2SD2012	
Q756	8-749-010-25	IC MN2488-OPY-M	
Q757	8-749-010-26	IC MP1620-OPY-M	
⚠T901	1-431-811-11	TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

AMP

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB..., uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H

Ref. No.	Part No.	Description			Remark
*	A-4414-175-A	AMP BOARD, COMPLETE (DB825)			
		**********			
*	A-4417-193-A	AMP BOARD, COMPLETE (DB725)			
		**********			
		< CAPACITOR >			
C501	1-126-965-11	ELECT	22uF	20%	50V
C520	1-126-967-11	ELECT	47uF	20%	50V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C570	1-126-967-11	ELECT	47uF	20%	50V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V
C590	1-126-935-11	ELECT	470uF	20%	6.3V
C620	1-126-967-11	ELECT	47uF	20%	50V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C801	1-126-967-11	ELECT	47uF	20%	50V
C803	1-117-950-11	ELECT	10000uF	20%	63V
C804	1-117-950-11	ELECT	10000uF	20%	63V
C805	1-130-781-00	FILM	0.22uF	10%	100V
C806	1-130-781-00	FILM	0.22uF	10%	100V
C811	1-126-952-11	ELECT	1000uF	20%	35V
C812	1-126-951-11	ELECT	470uF	20%	35V
C813	1-126-967-11	ELECT	47uF	20%	50V
C817	1-126-967-11	ELECT	47uF	20%	50V
C818	1-126-967-11	ELECT	47uF	20%	50V
CC48	1-136-153-00	CERAMIC		5%	50V
CC49	1-136-153-00	CERAMIC		5%	50V
CC98	1-136-153-00	CERAMIC		5%	50V
CC99	1-136-153-00	CERAMIC		5%	50V
		< CONNECTOR >			
* CND805	1-564-341-11	PIN, CONNECTOR 7P			
CNS651	1-784-806-11	HOUSING, CONNECTOR (PC BOARD) 13P			
CNS804	1-568-439-11	SOCKET, CONNECTOR 7P			
* CNV801	1-564-243-11	PIN, CONNECTOR 6P			

Ref. No.	Part No.	Description	Remark
* CNV802	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
		< DIODE >	
D501	8-719-911-19	DIODE 1SS119-25	
D502	8-719-109-51	DIODE RD2.0ES-B2	
D503	8-719-109-51	DIODE RD2.0ES-B2	
D504	8-719-911-19	DIODE 1SS119-25	
D505	8-719-911-19	DIODE 1SS119-25	
D506	8-719-911-19	DIODE 1SS119-25	
D545	8-719-911-19	DIODE 1SS119-25	
D546	8-719-911-19	DIODE 1SS119-25	
D547	8-719-911-19	DIODE 1SS119-25	
D548	8-719-911-19	DIODE 1SS119-25	
D549	8-719-911-19	DIODE 1SS119-25	
D551	8-719-911-19	DIODE 1SS119-25	
D552	8-719-109-51	DIODE RD2.0ES-B2	
D553	8-719-109-51	DIODE RD2.0ES-B2	
D554	8-719-911-19	DIODE 1SS119-25	
D555	8-719-911-19	DIODE 1SS119-25	
D556	8-719-911-19	DIODE 1SS119-25	
D601	8-719-911-19	DIODE 1SS119-25	
D602	8-719-109-51	DIODE RD2.0ES-B2	
D603	8-719-109-51	DIODE RD2.0ES-B2	
D604	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D801	8-719-302-38	DIODE RBV-602-01	
D802	8-719-200-82	DIODE 11ES2	
D803	8-719-200-82	DIODE 11ES2	
D804	8-719-200-82	DIODE 11ES2	
D805	8-719-200-82	DIODE 11ES2	
D806	8-719-068-24	DIODE HZ5.6BP-TK	
D807	8-719-934-21	DIODE HZS30-1L	
		< GROUND TERMINAL >	
* EB702	1-537-738-21	TERMINAL, EARTH	
* EB703	1-537-738-21	TERMINAL, EARTH	
		< FUSE, FUSE HOLDER >	
⚠F801	1-532-506-51	FUSE (T6.3AL/250V)	
F801	1-533-223-11	HOLDER, FUSE	
⚠F802	1-532-506-51	FUSE (T6.3AL/250V)	
F802	1-533-223-11	HOLDER, FUSE	
⚠F803	1-532-504-51	FUSE (T4AL/250V)	
F803	1-533-223-11	HOLDER, FUSE	
⚠F804	1-532-504-51	FUSE (T4AL/250V)	
F804	1-533-223-11	HOLDER, FUSE	

AMP

Ref. No.	Part No.	Description				Remark
		< IC >				
IC809	8-759-708-05	IC NJM78L05A				
		< COIL >				
L501	1-411-906-11	COIL, AIR-CORE				
L551	1-411-906-11	COIL, AIR-CORE				
		< TRANSISTOR >				
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q505	8-729-209-15	TRANSISTOR 2SD2012				
Q506	8-749-010-25	IC MN2488-OPY-M				
Q507	8-749-010-26	IC MP1620-OPY-M				
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q509	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q510	8-729-900-63	TRANSISTOR DTA124ES				
Q511	8-729-900-63	TRANSISTOR DTA124ES				
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q555	8-729-209-15	TRANSISTOR 2SD2012				
Q556	8-749-010-25	IC MN2488-OPY-M				
Q557	8-749-010-26	IC MP1620-OPY-M				
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q559	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q560	8-729-900-63	TRANSISTOR DTA124ES				
Q561	8-729-900-63	TRANSISTOR DTA124ES				
Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q601	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q605	8-729-209-15	TRANSISTOR 2SD2012				
Q606	8-749-010-25	IC MN2488-OPY-M				
Q607	8-749-010-26	IC MP1620-OPY-M				
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				
Q613	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q616	8-729-900-36	TRANSISTOR DTC124ES				
Q801	8-729-140-97	TRANSISTOR 2SB734-34				
		< RESISTOR >				
R501	1-249-432-11	CARBON	18K	5%	1/4W	
R502	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R503	1-249-432-11	CARBON	18K	5%	1/4W	
R504	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R505	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R506	1-249-381-11	CARBON	1	5%	1/4W	F
R521	1-249-429-11	CARBON	10K	5%	1/4W	
R522	1-249-437-11	CARBON	47K	5%	1/4W	F
R523	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R524	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R525	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R526	1-233-352-41	ENCAPSULATED COMPONENT				
R527	1-247-850-11	CARBON	6.2K	5%	1/4W	
R528	1-249-417-11	CARBON	1K	5%	1/4W	F
R529	1-247-866-11	CARBON	30K	5%	1/4W	
R530	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R531	1-249-433-11	CARBON	22K	5%	1/4W	
R532	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R533	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R534	1-249-389-11	CARBON	4.7	5%	1/4W	F
R535	1-249-431-11	CARBON	15K	5%	1/4W	
R539	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R540	1-249-417-11	CARBON	1K	5%	1/4W	F
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R547	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R548	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R549	1-249-393-11	CARBON	10	5%	1/4W	F
R551	1-247-881-00	CARBON	120K	5%	1/4W	
R552	1-247-881-00	CARBON	120K	5%	1/4W	
R571	1-249-429-11	CARBON	10K	5%	1/4W	
R572	1-249-437-11	CARBON	47K	5%	1/4W	F
R573	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R574	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R575	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R576	1-233-352-41	ENCAPSULATED COMPONENT				
R577	1-247-850-11	CARBON	6.2K	5%	1/4W	
R578	1-249-417-11	CARBON	1K	5%	1/4W	F
R579	1-247-866-11	CARBON	30K	5%	1/4W	
R580	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R581	1-249-433-11	CARBON	22K	5%	1/4W	
R582	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R583	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R584	1-249-389-11	CARBON	4.7	5%	1/4W	F
R585	1-249-431-11	CARBON	15K	5%	1/4W	
R586	1-249-429-11	CARBON	10K	5%	1/4W	
R587	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R588	1-249-393-11	CARBON	10	5%	1/4W	F
R589	1-249-432-11	CARBON	18K	5%	1/4W	
R590	1-249-432-11	CARBON	18K	5%	1/4W	
R605	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R606	1-249-393-11	CARBON	10	5%	1/4W	F
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-247-881-00	CARBON	120K	5%	1/4W	
R623	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R624	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R625	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R626	1-233-352-41	ENCAPSULATED COMPONENT				
R627	1-247-850-11	CARBON	6.2K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	F
R632	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R633	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R642	1-215-890-11	METAL OXIDE	470	5%	2W	F
R643	1-249-441-11	CARBON	100K	5%	1/4W	F
R650	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R672	1-249-437-11	CARBON	47K	5%	1/4W	F
⚠R739	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠R789	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠R802	1-249-401-11	CARBON	47	5%	1/4W	F
R803	1-247-843-11	CARBON	3.3K	5%	1/4W	
⚠RR48	1-249-393-11	CARBON	10	5%	1/4W	F
⚠RR49	1-249-393-11	CARBON	10	5%	1/4W	F
⚠RR98	1-249-393-11	CARBON	10	5%	1/4W	F
⚠RR99	1-249-393-11	CARBON	10	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		< RELAY >			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
		< TERMINAL >			
TM501	1-694-429-21	TERMINAL BOARD (SP)(SPEAKERS FRONT A/B)			
**********					
*	1-670-096-11	BALANCE BOARD			
		**********			
		< CONNECTOR >			
* CNS105	1-564-521-11	PLUG, CONNECTOR 6P			
		< VARIABLE RESISTOR >			
RV402	1-225-650-11	RES, VAR, CARBON 100K/100K			
**********					
*	1-669-441-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
CNP207	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
CNP651	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
**********					
*	A-4414-144-A	DISPLAY BOARD, COMPLETE (DB725)			
		**********			
*	A-4414-171-A	DISPLAY BOARD, COMPLETE (DB825)			
		**********			
*	3-386-245-11	HOLDER (FL)			
*	4-921-941-01	CUSHION (FL)			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-126-959-11	ELECT	0.47uF	20%	50V
C105	1-164-159-11	CERAMIC	0.1uF		50V
C106	1-162-306-11	CERAMIC	0.01uF	20%	16V
C107	1-162-306-11	CERAMIC	0.01uF	20%	16V
C109	1-124-589-11	ELECT	47uF	20%	16V (DB825)
C110	1-164-159-11	CERAMIC	0.1uF		50V (DB825)
C111	1-124-589-11	ELECT	47uF	20%	16V
C112	1-126-960-11	ELECT	1uF	20%	50V (DB825)
C113	1-124-589-11	ELECT	47uF	20%	16V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-104-905-11	CAPACITOR	0.22F		5.5V
C116	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-164-159-11	CERAMIC	0.1uF		50V
C130	1-164-159-11	CERAMIC	0.1uF		50V
C131	1-162-306-11	CERAMIC	0.01uF	20%	16V (DB825)
C132	1-162-306-11	CERAMIC	0.01uF	20%	16V (DB825)
C143	1-164-159-11	CERAMIC	0.1uF		50V
C1107	1-124-589-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
* CND101	1-564-496-11	PIN, CONNECTOR 3P			
* CND103	1-564-500-11	PIN, CONNECTOR 7P			
CND104	1-564-501-11	PIN, CONNECTOR 8P			
* CNE102	1-564-519-11	PLUG, CONNECTOR 4P			
CNP103	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP107	1-779-365-11	CONNECTOR, PC BOARD (PLUG) 8P			
CNP119	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNS102	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
* CNS116	1-568-856-11	SOCKET, CONNECTOR 13P			
* CNS117	1-568-858-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D101	8-719-059-14	DIODE SID313BP-TP19 (DB825)			
D102	8-719-059-14	DIODE SID313BP-TP19 (DB825)			
D103	8-719-059-14	DIODE SID313BP-TP19 (DB825)			
D104	8-719-911-19	DIODE 1SS119-25			
D105	8-719-911-19	DIODE 1SS119-25 (DB825)			
D106	8-719-911-19	DIODE 1SS119-25 (DB825)			
D107	8-719-911-19	DIODE 1SS119-25			
D108	8-719-911-19	DIODE 1SS119-25			
D111	8-719-058-64	DIODE SEL5823A-TP15 (TONE)			
D117	8-719-911-19	DIODE 1SS119-25			
D119	8-719-911-19	DIODE 1SS119-25			
D120	8-719-911-19	DIODE 1SS119-25			
D121	8-719-911-19	DIODE 1SS119-25			
D124	8-719-313-45	DIODE SEL6810A-TH10 (TUNER)			
D125	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 1)			
D126	8-719-313-45	DIODE SEL6810A-TH10 (PHONO)			
D127	8-719-313-45	DIODE SEL6810A-TH10 (TAPE/MD)			
D128	8-719-313-45	DIODE SEL6810A-TH10 (TV/LD)			
D129	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 2)			
D130	8-719-313-45	DIODE SEL6810A-TH10 (CD)			
D131	8-719-313-45	DIODE SEL6810A-TH10 (VIDEO 3)			
D135	8-719-058-64	DIODE SEL5823A-TP15 (5.1/DVD INPUT)			
D136	8-719-058-64	DIODE SEL5823A-TP15 (BASS BOOST)			
D151	8-719-911-19	DIODE 1SS119-25			
D152	8-719-911-19	DIODE 1SS119-25			
D153	8-719-911-19	DIODE 1SS119-25			
D154	8-719-911-19	DIODE 1SS119-25			
D184	8-719-911-19	DIODE 1SS119-25			
D1101	8-719-911-19	DIODE 1SS119-25			
		< FLUORESCENT INDICATOR >			
FL101	1-517-770-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-459-83	IC NJL55H400A			
IC102	8-759-545-07	IC TMP87C447U-4A06 (DB825)			
IC103	8-759-540-93	IC uPD780208GF-023-3BA (DB825)			
IC106	8-759-962-08	IC BA6208			

DISPLAY

Ref. No.	Part No.	Description	Remark
IC107	8-759-267-86	IC SN74HC00ANS-E20 (DB825)	
		< COIL >	
L101	1-410-509-11	INDUCTOR 10uH	
L102	1-408-080-00	INDUCTOR 100uH (DB825)	
		< TRANSISTOR >	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-900-63	TRANSISTOR DTA124ES	
Q103	8-729-900-36	TRANSISTOR DTC124ES	
Q104	8-729-900-36	TRANSISTOR DTC124ES	
Q105	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q106	8-729-119-79	TRANSISTOR 2SC2785-FEK (DB825)	
Q107	8-729-900-80	TRANSISTOR DTC114ES (DB825)	
Q108	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q129	8-729-801-93	TRANSISTOR 2SD1387 (DB825)	
Q130	8-729-801-93	TRANSISTOR 2SD1387 (DB825)	
Q150	8-729-900-36	TRANSISTOR DTC124ES	
Q413	8-729-900-80	TRANSISTOR DTC114ES	
Q1101	8-729-119-79	TRANSISTOR 2SC2785-FEK	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remark
R101	1-249-429-11	CARBON	10K	5%	1/4W
R103	1-249-425-11	CARBON	4.7K	5%	1/4W F
R104	1-249-429-11	CARBON	10K	5%	1/4W
R105	1-249-425-11	CARBON	4.7K	5%	1/4W F
R106	1-249-425-11	CARBON	4.7K	5%	1/4W F
R107	1-249-425-11	CARBON	4.7K	5%	1/4W F
R109	1-247-843-11	CARBON	3.3K	5%	1/4W
R110	1-247-843-11	CARBON	3.3K	5%	1/4W
R111	1-247-843-11	CARBON	3.3K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W F
R113	1-249-441-11	CARBON	100K	5%	1/4W
R114	1-249-429-11	CARBON	10K	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-249-425-11	CARBON	4.7K	5%	1/4W F
R118	1-247-807-31	CARBON	100	5%	1/4W
R119	1-249-425-11	CARBON	4.7K	5%	1/4W F
R123	1-247-807-31	CARBON	100	5%	1/4W
R124	1-249-417-11	CARBON	1K	5%	1/4W F
R128	1-247-807-31	CARBON	100	5%	1/4W
R129	1-247-807-31	CARBON	100	5%	1/4W
R130	1-247-807-31	CARBON	100	5%	1/4W
R131	1-247-807-31	CARBON	100	5%	1/4W
R132	1-247-807-31	CARBON	100	5%	1/4W
R133	1-247-807-31	CARBON	100	5%	1/4W
R134	1-247-807-31	CARBON	100	5%	1/4W
R135	1-247-807-31	CARBON	100	5%	1/4W
R136	1-247-807-31	CARBON	100	5%	1/4W
R137	1-249-429-11	CARBON	10K	5%	1/4W
R138	1-247-807-31	CARBON	100	5%	1/4W
R139	1-247-807-31	CARBON	100	5%	1/4W
R140	1-247-807-31	CARBON	100	5%	1/4W
R142	1-247-807-31	CARBON	100	5%	1/4W
R143	1-247-807-31	CARBON	100	5%	1/4W
R144	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R146	1-249-383-11	CARBON	1.5	5%	1/6W F (DB825)
R148	1-249-425-11	CARBON	4.7K	5%	1/4W F (DB825)
R150	1-249-409-11	CARBON	220	5%	1/4W
R152	1-249-411-11	CARBON	330	5%	1/4W
R153	1-249-411-11	CARBON	330	5%	1/4W
R154	1-249-411-11	CARBON	330	5%	1/4W
R155	1-249-429-11	CARBON	10K	5%	1/4W
R156	1-249-421-11	CARBON	2.2K	5%	1/4W F
R157	1-249-421-11	CARBON	2.2K	5%	1/4W F
R159	1-249-429-11	CARBON	10K	5%	1/4W
R160	1-249-429-11	CARBON	10K	5%	1/4W
R161	1-249-437-11	CARBON	47K	5%	1/4W
R162	1-249-433-11	CARBON	22K	5%	1/4W
R165	1-249-429-11	CARBON	10K	5%	1/4W (DB825)
R167	1-249-385-00	CARBON	2.2	5%	1/4W F (DB825)
R168	1-249-429-11	CARBON	10K	5%	1/4W (DB825)
R171	1-249-429-11	CARBON	10K	5%	1/4W (DB825)
R172	1-249-417-11	CARBON	1K	5%	1/4W F
R190	1-249-429-11	CARBON	10K	5%	1/4W
R1101	1-249-393-11	CARBON	10	5%	1/4W F
R1106	1-249-429-11	CARBON	10K	5%	1/4W
R1107	1-249-429-11	CARBON	10K	5%	1/4W
R1108	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3000	1-249-385-11	CARBON	2.2	5%	1/4W F
RR10	1-247-843-11	CARBON	3.3K	5%	1/4W
RR11	1-249-409-11	CARBON	220	5%	1/4W F
RR12	1-249-411-11	CARBON	330	5%	1/4W
RR13	1-249-413-11	CARBON	470	5%	1/4W F
RR101	1-249-437-11	CARBON	47K	5%	1/4W
RR102	1-249-437-11	CARBON	47K	5%	1/4W
RR103	1-249-437-11	CARBON	47K	5%	1/4W
RR104	1-249-437-11	CARBON	47K	5%	1/4W
RR105	1-249-437-11	CARBON	47K	5%	1/4W
RR106	1-249-437-11	CARBON	47K	5%	1/4W
RR107	1-249-437-11	CARBON	47K	5%	1/4W
RR108	1-249-437-11	CARBON	47K	5%	1/4W
RR109	1-249-437-11	CARBON	47K	5%	1/4W
RR110	1-249-437-11	CARBON	47K	5%	1/4W
RR111	1-249-437-11	CARBON	47K	5%	1/4W
RR112	1-249-437-11	CARBON	47K	5%	1/4W
RR113	1-249-437-11	CARBON	47K	5%	1/4W
RR114	1-249-437-11	CARBON	47K	5%	1/4W
RR115	1-249-437-11	CARBON	47K	5%	1/4W
RR116	1-249-437-11	CARBON	47K	5%	1/4W
RR117	1-249-437-11	CARBON	47K	5%	1/4W
RR118	1-249-437-11	CARBON	47K	5%	1/4W
RR119	1-249-437-11	CARBON	47K	5%	1/4W
RR120	1-249-437-11	CARBON	47K	5%	1/4W
RR121	1-249-437-11	CARBON	47K	5%	1/4W
RR122	1-249-437-11	CARBON	47K	5%	1/4W
RR123	1-249-437-11	CARBON	47K	5%	1/4W
RR124	1-249-437-11	CARBON	47K	5%	1/4W
RR125	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
RR126	1-249-437-11	CARBON	47K	5%	1/4W
RR127	1-249-437-11	CARBON	47K	5%	1/4W
RR128	1-249-437-11	CARBON	47K	5%	1/4W
RR129	1-249-437-11	CARBON	47K	5%	1/4W
		< VIBRATOR >			
X101	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			
X102	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)(DB825)			
**********					
*	1-670-099-11	FUNCTION BOARD			
		**********			
		< CONNECTOR >			
CNS120	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P			
		< DIODE >			
D116	8-719-313-45	DIODE SEL6810A-TH10 (TUNING)			
		< RESISTOR >			
R151	1-249-413-11	CARBON	470	5%	1/4W
RR154	1-249-411-11	CARBON	330	5%	1/4W
RR155	1-249-409-11	CARBON	220	5%	1/4W F
		< VARIABLE RESISTOR >			
RV101	1-467-808-11	ENCODER, ROTARY (FUNCTION)			
		< SWITCH >			
S129	1-762-751-11	SWITCH, TACTILE (MUTING)			
S130	1-762-751-11	SWITCH, TACTILE (MODE)			
**********					
*	1-669-443-11	H.P BOARD			
		*********			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	A-4414-176-A	INPUT BOARD, COMPLETE			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C001	1-126-966-11	ELECT	33uF	20%	50V
C002	1-162-284-31	CERAMIC	150PF	10%	50V
C003	1-102-233-00	CERAMIC	33PF	10%	500V
C004	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C005	1-126-934-11	ELECT	220uF	20%	10V
C006	1-162-282-31	CERAMIC	100PF	10%	50V
C050	1-126-934-11	ELECT	220uF	20%	10V
C051	1-126-966-11	ELECT	33uF	20%	50V
C052	1-162-284-31	CERAMIC	150PF	10%	50V
C053	1-102-233-00	CERAMIC	33PF	10%	500V

Ref. No.	Part No.	Description			Remark
C054	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C056	1-162-282-31	CERAMIC	100PF	10%	50V
C100	1-126-948-11	ELECT	100uF	20%	35V
C300	1-162-283-31	CERAMIC	120PF	10%	50V
C301	1-162-283-31	CERAMIC	120PF	10%	50V
C303	1-162-306-11	CERAMIC	0.01uF	20%	16V
C303	1-162-306-11	CERAMIC	0.01uF	20%	16V
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-126-961-11	ELECT	2.2uF	20%	50V
C308	1-126-934-11	ELECT	220uF	20%	10V
C309	1-126-934-11	ELECT	220uF	20%	10V
C310	1-125-896-91	MYLAR	0.0091uF	5%	50V
C311	1-125-896-91	MYLAR	0.0091uF	5%	50V
C312	1-136-159-00	FILM	0.033uF	5%	50V
C313	1-136-159-00	FILM	0.033uF	5%	50V
C314	1-126-961-11	ELECT	2.2uF	20%	50V
C315	1-126-961-11	ELECT	2.2uF	20%	50V
C316	1-126-933-11	ELECT	100uF	20%	16V
C317	1-126-933-11	ELECT	100uF	20%	16V
C318	1-104-664-11	ELECT	47uF	20%	16V
C319	1-104-664-11	ELECT	47uF	20%	16V
C320	1-126-965-11	ELECT	22uF	20%	50V
C322	1-162-294-31	CERAMIC	0.001uF	10%	50V
C323	1-162-282-31	CERAMIC	100PF	10%	50V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-164-159-11	CERAMIC	0.1uF		50V
C334	1-164-159-11	CERAMIC	0.1uF		50V
C335	1-164-159-11	CERAMIC	0.1uF		50V
C336	1-164-159-11	CERAMIC	0.1uF		50V
C337	1-164-159-11	CERAMIC	0.1uF		50V
C343	1-126-966-11	ELECT	33uF	20%	50V
C344	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C345	1-162-199-31	CERAMIC	10PF	5%	50V
C346	1-162-199-31	CERAMIC	10PF	5%	50V
C349	1-162-199-31	CERAMIC	10PF	5%	50V
C350	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C351	1-126-966-11	ELECT	33uF	20%	50V
C352	1-126-965-11	ELECT	22uF	20%	50V
C353	1-162-306-11	CERAMIC	0.01uF	20%	16V
C370	1-126-965-11	ELECT	22uF	20%	50V
C371	1-126-966-11	ELECT	33uF	20%	50V
C431	1-126-960-11	ELECT	1uF	20%	50V
C433	1-126-960-11	ELECT	1uF	20%	50V
C437	1-126-960-11	ELECT	1uF	20%	50V
C439	1-126-960-11	ELECT	1uF	20%	50V
C443	1-126-960-11	ELECT	1uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C462	1-126-934-11	ELECT	220uF	20%	16V
C463	1-164-159-11	CERAMIC	0.1uF		50V
C464	1-126-934-11	ELECT	220uF	20%	16V
C465	1-162-207-31	CERAMIC	22PF	5%	50V
C466	1-102-527-11	CERAMIC	82PF	5%	50V
C467	1-126-961-11	ELECT	2.2uF	20%	50V
C468	1-102-852-91	CERAMIC	47PF	5%	50V
C469	1-162-306-11	CERAMIC	0.01uF	20%	16V
C470	1-162-291-31	CERAMIC	560PF	10%	50V
C471	1-126-960-11	ELECT	1uF	20%	50V
C472	1-164-159-11	CERAMIC	0.1uF		50V

INPUT

Ref. No.	Part No.	Description			Remark
C490	1-126-963-11	ELECT	4.7uF	20%	50V
C508	1-136-495-11	FILM	0.068uF	5%	50V
C509	1-136-153-00	FILM	0.01uF	5%	50V
C510	1-110-335-11	MYLAR	100PF	5%	50V
C511	1-130-476-00	MYLAR	0.0027uF	5%	50V
C512	1-136-157-00	FILM	0.022uF	5%	50V
C513	1-136-171-00	FILM	0.33uF	5%	50V
C514	1-136-159-00	FILM	0.033uF	5%	50V
C558	1-136-495-11	FILM	0.068uF	5%	50V
C559	1-136-153-00	FILM	0.01uF	5%	50V
C560	1-110-335-11	MYLAR	100PF	5%	50V
C561	1-130-476-00	MYLAR	0.0027uF	5%	50V
C562	1-136-157-00	FILM	0.022uF	5%	50V
C563	1-136-171-00	FILM	0.33uF	5%	50V
C564	1-136-159-00	FILM	0.033uF	5%	50V
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C596	1-164-159-11	CERAMIC	0.1uF		50V
C597	1-162-282-31	CERAMIC	100PF	10%	50V
C598	1-104-664-11	ELECT	47uF	20%	16V
C599	1-104-664-11	ELECT	47uF	20%	16V
C601	1-126-966-11	ELECT	33uF	20%	50V
C602	1-162-284-31	CERAMIC	150PF	10%	50V
C603	1-102-233-00	CERAMIC	33PF	10%	500V
C604	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C605	1-126-934-11	ELECT	220uF	20%	10V
C606	1-162-282-31	CERAMIC	100PF	10%	50V
C607	1-126-966-11	ELECT	33uF	20%	50V
C610	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-126-966-11	ELECT	33uF	20%	50V
C652	1-162-284-31	CERAMIC	150PF	10%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C655	1-126-934-11	ELECT	220uF	20%	10V
C656	1-162-282-31	CERAMIC	100PF	10%	50V
C657	1-126-966-11	ELECT	33uF	20%	50V
C693	1-126-934-11	ELECT	220uF	20%	10V
C701	1-126-966-11	ELECT	33uF	20%	50V
C702	1-162-284-31	CERAMIC	150PF	10%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C705	1-126-934-11	ELECT	220uF	20%	10V
C706	1-162-282-31	CERAMIC	100PF	10%	50V
C710	1-162-282-31	CERAMIC	100PF	10%	50V
C751	1-126-966-11	ELECT	33uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C755	1-126-934-11	ELECT	220uF	20%	10V
C756	1-162-282-31	CERAMIC	100PF	10%	50V
C807	1-126-934-11	ELECT	220uF	20%	16V
C808	1-126-934-11	ELECT	220uF	20%	16V
C809	1-126-948-11	ELECT	100uF	20%	35V
C1000	1-161-494-11	CERAMIC	0.022uF	30%	25V
C5001	1-126-966-11	ELECT	33uF	20%	50V
C5051	1-126-966-11	ELECT	33uF	20%	50V
CC01	1-162-282-31	CERAMIC	100PF	10%	50V
CC02	1-162-286-31	CERAMIC	220PF	10%	50V
CC04	1-162-282-31	CERAMIC	100PF	10%	50V
CC05	1-162-282-31	CERAMIC	100PF	10%	50V
CC06	1-162-282-31	CERAMIC	100PF	10%	50V
CC51	1-162-282-31	CERAMIC	100PF	10%	50V
CC52	1-162-286-31	CERAMIC	220PF	10%	50V
CC54	1-162-282-31	CERAMIC	100PF	10%	50V
CC55	1-162-282-31	CERAMIC	100PF	10%	50V
CC56	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
* CND201	1-564-342-11	PIN, CONNECTOR 8P			
CNE202	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNE203	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNE208	1-691-768-11	PLUG (MICRO CONNECTOR) 6P			
CNE209	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CNS201	1-569-060-11	SOCKET, CONNECTOR 11P			
CNS202	1-568-442-11	SOCKET, CONNECTOR 9P			
CNS203	1-569-321-11	SOCKET, CONNECTOR 15P			
CNS204	1-568-443-11	SOCKET, CONNECTOR 13P			
CNS205	1-569-323-11	SOCKET, CONNECTOR 19P			
CNS206	1-569-060-11	SOCKET, CONNECTOR 11P			
CNS207	1-784-806-11	HOUSING, CONNECTOR (PC BOARD) 13P			
		< DIODE >			
D301	8-719-911-19	DIODE 1SS119-25			
D401	8-719-911-19	DIODE 1SS119-25			
D402	8-719-911-19	DIODE 1SS119-25			
		< GROUND TERMINAL >			
* EB301	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC001	8-759-326-52	IC uPC2581V			
IC301	8-759-634-51	IC M5218AP			
IC302	8-759-805-14	IC LC7822			
IC303	8-759-636-74	IC M5218AP-22			
IC304	8-759-634-51	IC M5218AP			
IC305	8-759-634-51	IC M5218AP			
IC306	8-759-634-51	IC M5218AP			
IC450	8-759-604-35	IC M5F78M05L			
IC451	8-759-391-87	IC BA78M12P			
IC452	8-759-450-86	IC BU1922			
IC502	8-759-462-99	IC TC9184AP			
IC601	8-759-326-52	IC uPC2581V			
IC701	8-759-326-52	IC uPC2581V			
IC801	8-759-604-40	IC M5F78M15L			
IC803	8-759-604-46	IC M5F79M15L			
		< JACK >			
J201	1-695-188-31	JACK, PIN 4P (PHONO IN, CD IN)			
J202	1-573-028-31	JACK, PIN 4P (TAPE/MD REC OUT/IN)			
J203	1-785-009-11	JACK, PIN 6P (5.1/DVD INPUT)			
		< COIL >			
L460	1-410-521-11	INDUCTOR 100uH			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q300	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q301	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q302	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q303	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q304	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q305	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
Q411	8-729-900-63	TRANSISTOR	DTA124ES		
Q414	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q501	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q502	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q551	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q552	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q691	8-729-900-80	TRANSISTOR	DTC114ES		
Q692	8-729-422-57	TRANSISTOR	UN4111		
Q3008	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R001	1-249-417-11	CARBON	1K	5%	1/4W F
R002	1-249-439-11	CARBON	68K	5%	1/4W
R003	1-247-876-11	CARBON	75K	5%	1/4W
R004	1-249-413-11	CARBON	470	5%	1/4W F
R051	1-249-417-11	CARBON	1K	5%	1/4W F
R052	1-249-439-11	CARBON	68K	5%	1/4W
R053	1-249-433-11	CARBON	22K	5%	1/4W
R054	1-249-417-11	CARBON	1K	5%	1/4W F
R055	1-249-409-11	CARBON	220	5%	1/4W F
R056	1-249-409-11	CARBON	220	5%	1/4W F
R090	1-249-433-11	CARBON	22K	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W F
R326	1-249-417-11	CARBON	1K	5%	1/4W F
R327	1-249-417-11	CARBON	1K	5%	1/4W F
R330	1-249-417-11	CARBON	1K	5%	1/4W F
R331	1-249-417-11	CARBON	1K	5%	1/4W F
R334	1-249-417-11	CARBON	1K	5%	1/4W F
R335	1-249-417-11	CARBON	1K	5%	1/4W F
R336	1-247-847-11	CARBON	4.7K	5%	1/4W F
R337	1-247-847-11	CARBON	4.7K	5%	1/4W F
R338	1-249-441-11	CARBON	100K	5%	1/4W
R339	1-249-441-11	CARBON	100K	5%	1/4W
R341	1-249-440-11	CARBON	82K	5%	1/4W
R342	1-249-440-11	CARBON	82K	5%	1/4W
R343	1-249-408-11	CARBON	180	5%	1/4W F
R344	1-249-408-11	CARBON	180	5%	1/4W F
R345	1-249-428-11	CARBON	8.2K	5%	1/4W F
R346	1-249-428-11	CARBON	8.2K	5%	1/4W F
R347	1-249-441-11	CARBON	100K	5%	1/4W
R348	1-249-441-11	CARBON	100K	5%	1/4W
R349	1-247-807-31	CARBON	100	5%	1/4W
R350	1-247-807-31	CARBON	100	5%	1/4W
R351	1-249-413-11	CARBON	470	5%	1/4W F
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R356	1-249-425-11	CARBON	4.7K	5%	1/4W F
R357	1-247-807-31	CARBON	100	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R359	1-249-417-11	CARBON	1K	5%	1/4W F
R360	1-249-441-11	CARBON	100K	5%	1/4W
R361	1-249-441-11	CARBON	100K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W F
R363	1-249-417-11	CARBON	1K	5%	1/4W F
R364	1-249-429-11	CARBON	10K	5%	1/4W
R365	1-249-429-11	CARBON	10K	5%	1/4W
R366	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-417-11	CARBON	1K	5%	1/4W F
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-247-903-00	CARBON	1M	5%	1/4W
R370	1-247-903-00	CARBON	1M	5%	1/4W
R371	1-247-903-00	CARBON	1M	5%	1/4W
R372	1-247-903-00	CARBON	1M	5%	1/4W
R373	1-247-903-00	CARBON	1M	5%	1/4W
R374	1-249-419-11	CARBON	1.5K	5%	1/4W F
R375	1-249-419-11	CARBON	1.5K	5%	1/4W F
R376	1-249-419-11	CARBON	1.5K	5%	1/4W F
R377	1-249-419-11	CARBON	1.5K	5%	1/4W F
R378	1-249-419-11	CARBON	1.5K	5%	1/4W F
R379	1-249-419-11	CARBON	1.5K	5%	1/4W F
R380	1-249-417-11	CARBON	1K	5%	1/4W F
R381	1-249-417-11	CARBON	1K	5%	1/4W F
R382	1-249-417-11	CARBON	1K	5%	1/4W F
R383	1-249-417-11	CARBON	1K	5%	1/4W F
R384	1-249-417-11	CARBON	1K	5%	1/4W F
R385	1-249-417-11	CARBON	1K	5%	1/4W F
R386	1-249-441-11	CARBON	100K	5%	1/4W
R387	1-249-440-11	CARBON	82K	5%	1/4W
R388	1-249-425-11	CARBON	4.7K	5%	1/4W F
R389	1-249-429-11	CARBON	10K	5%	1/4W
R390	1-249-441-11	CARBON	100K	5%	1/4W
R391	1-249-429-11	CARBON	10K	5%	1/4W
R392	1-249-425-11	CARBON	4.7K	5%	1/4W F
R393	1-249-425-11	CARBON	4.7K	5%	1/4W F
R394	1-249-441-11	CARBON	100K	5%	1/4W
R395	1-249-429-11	CARBON	10K	5%	1/4W
R396	1-249-433-11	CARBON	22K	5%	1/4W
R397	1-249-433-11	CARBON	22K	5%	1/4W
R398	1-247-895-00	CARBON	470K	5%	1/4W
R399	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-436-11	CARBON	39K	5%	1/4W
R462	1-249-436-11	CARBON	39K	5%	1/4W
R463	1-247-807-31	CARBON	100	5%	1/4W
R464	1-247-807-31	CARBON	100	5%	1/4W
R465	1-249-421-11	CARBON	2.2K	5%	1/6W F
R483	1-249-429-11	CARBON	10K	5%	1/4W
R486	1-249-428-11	CARBON	8.2K	5%	1/4W F
R489	1-249-437-11	CARBON	47K	5%	1/4W
R508	1-249-441-11	CARBON	100K	5%	1/4W
R509	1-247-903-00	CARBON	1M	5%	1/4W
R510	1-249-426-11	CARBON	5.6K	5%	1/4W
R511	1-249-434-11	CARBON	27K	5%	1/4W
R513	1-249-426-11	CARBON	5.6K	5%	1/4W
R514	1-249-418-11	CARBON	1.2K	5%	1/4W F
R515	1-249-441-11	CARBON	100K	5%	1/4W
R516	1-247-843-11	CARBON	3.3K	5%	1/4W
R517	1-247-883-00	CARBON	150K	5%	1/4W
R518	1-249-427-11	CARBON	6.8K	5%	1/4W F
R519	1-249-413-11	CARBON	470	5%	1/4W F

INPUT REAR AMP

Ref. No.	Part No.	Description			Remark
R558	1-249-441-11	CARBON	100K	5%	1/4W
R559	1-247-903-00	CARBON	1M	5%	1/4W
R560	1-249-426-11	CARBON	5.6K	5%	1/4W
R561	1-249-434-11	CARBON	27K	5%	1/4W
R563	1-249-426-11	CARBON	5.6K	5%	1/4W
R564	1-249-418-11	CARBON	1.2K	5%	1/4W F
R565	1-249-441-11	CARBON	100K	5%	1/4W
R566	1-247-843-11	CARBON	3.3K	5%	1/4W
R567	1-247-883-00	CARBON	150K	5%	1/4W
R568	1-249-427-11	CARBON	6.8K	5%	1/4W F
R569	1-249-413-11	CARBON	470	5%	1/4W F
⚠R592	1-249-381-11	CARBON	1	5%	1/4W F
⚠R593	1-249-381-11	CARBON	1	5%	1/4W F
R595	1-247-903-00	CARBON	1M	5%	1/4W
R596	1-249-421-11	CARBON	2.2K	5%	1/4W F
R597	1-247-843-11	CARBON	3.3K	5%	1/4W
R598	1-249-421-11	CARBON	2.2K	5%	1/4W F
R599	1-247-843-11	CARBON	3.3K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-437-11	CARBON	47K	5%	1/4W
R604	1-249-417-11	CARBON	1K	5%	1/4W F
R608	1-249-429-11	CARBON	10K	5%	1/4W
R609	1-249-434-11	CARBON	27K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-437-11	CARBON	47K	5%	1/4W
R654	1-249-417-11	CARBON	1K	5%	1/4W F
R658	1-249-429-11	CARBON	10K	5%	1/4W
R659	1-249-434-11	CARBON	27K	5%	1/4W
R690	1-249-433-11	CARBON	22K	5%	1/4W
R694	1-249-425-11	CARBON	4.7K	5%	1/4W F
R699	1-249-437-11	CARBON	47K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-247-876-11	CARBON	75K	5%	1/4W
R704	1-249-413-11	CARBON	470	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-247-876-11	CARBON	75K	5%	1/4W
R754	1-249-413-11	CARBON	470	5%	1/4W F
R790	1-249-433-11	CARBON	22K	5%	1/4W
R3000	1-247-895-00	CARBON	470K	5%	1/4W
R3001	1-249-433-11	CARBON	22K	5%	1/4W
R3002	1-249-441-11	CARBON	100K	5%	1/4W
R3003	1-249-429-11	CARBON	10K	5%	1/4W
R3004	1-249-429-11	CARBON	10K	5%	1/4W
R3005	1-249-440-11	CARBON	82K	5%	1/4W
R3008	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3009	1-249-441-11	CARBON	100K	5%	1/4W
R3010	1-247-852-11	CARBON	7.5K	5%	1/4W
R3011	1-249-413-11	CARBON	470	5%	1/4W F
R3012	1-249-429-11	CARBON	10K	5%	1/4W
R3013	1-249-429-11	CARBON	10K	5%	1/4W
R3014	1-249-429-11	CARBON	10K	5%	1/4W
R3060	1-247-852-11	CARBON	7.5K	5%	1/4W
R3062	1-249-429-11	CARBON	10K	5%	1/4W
R3063	1-249-429-11	CARBON	10K	5%	1/4W
R3368	1-247-903-00	CARBON	1M	5%	1/4W
R5002	1-249-429-11	CARBON	10K	5%	1/4W
R5052	1-249-429-11	CARBON	10K	5%	1/4W

< RELAY >

RY301	1-515-614-11	RELAY			

< VIBRATOR >

X450	1-579-900-21	VIBRATOR, CRYSTAL (4.33MHz)			

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*	A-4414-843-A	REAR AMP BOARD, COMPLETE			

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< CAPACITOR >

C720	1-104-664-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C770	1-104-664-11	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V

< CONNECTOR >

CNE711	1-691-768-11	PLUG (MICRO CONNECTOR) 6P	
CNE713	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
* CNV711	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P	
* CNV712	1-564-242-00	PIN, CONNECTOR 5P	

< DIODE >

D701	8-719-911-19	DIODE	1SS119-25
D702	8-719-109-51	DIODE	RD2.0ES-B2
D703	8-719-109-51	DIODE	RD2.0ES-B2
D704	8-719-911-19	DIODE	1SS119-25
D751	8-719-911-19	DIODE	1SS119-25
D752	8-719-109-51	DIODE	RD2.0ES-B2
D753	8-719-109-51	DIODE	RD2.0ES-B2
D754	8-719-911-19	DIODE	1SS119-25

< TRANSISTOR >

Q704	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q705	8-729-209-15	TRANSISTOR	2SD2012
Q706	8-749-010-25	IC	MN2488-OPY-M
Q707	8-749-010-26	IC	MP1620-OPY-M
Q708	8-729-140-82	TRANSISTOR	2SA988-PAFAEA
Q754	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q755	8-729-209-15	TRANSISTOR	2SD2012
Q756	8-749-010-25	IC	MN2488-OPY-M
Q757	8-749-010-26	IC	MP1620-OPY-M
Q758	8-729-140-82	TRANSISTOR	2SA988-PAFAEA

< RESISTOR >

R706	1-247-881-00	CARBON	120K	5%	1/4W
R721	1-249-437-11	CARBON	47K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R722	1-249-429-11	CARBON	10K	5%	1/4W
R723	1-249-421-11	CARBON	2.2K	5%	1/4W F
⚠R724	1-249-408-11	CARBON	180	5%	1/4W F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W F
⚠R726	1-233-352-41	ENCAPSULATED COMPONENT			
R727	1-247-850-11	CARBON	6.2K	5%	1/4W
R728	1-249-417-11	CARBON	1K	5%	1/4W F
R732	1-249-437-11	CARBON	47K	5%	1/4W
⚠R733	1-249-393-11	CARBON	10	5%	1/4W F
R756	1-247-881-00	CARBON	120K	5%	1/4W
R771	1-249-437-11	CARBON	47K	5%	1/4W
R772	1-249-429-11	CARBON	10K	5%	1/4W
R773	1-249-421-11	CARBON	2.2K	5%	1/4W F
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
⚠R776	1-233-352-41	ENCAPSULATED COMPONENT			
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-417-11	CARBON	1K	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
⚠R783	1-249-393-11	CARBON	10	5%	1/4W F

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* A-4407-581-A S VIDEO BOARD, COMPLETE
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< CAPACITOR >

C251	1-126-960-11	ELECT	1uF	20%	50V
C252	1-136-165-00	FILM	0.1uF	5%	50V
C253	1-126-960-11	ELECT	1uF	20%	50V
C254	1-136-165-00	FILM	0.1uF	5%	50V
C255	1-136-165-00	FILM	0.1uF	5%	50V
C256	1-126-960-11	ELECT	1uF	20%	50V
C259	1-126-960-11	ELECT	1uF	20%	50V
C260	1-136-165-00	FILM	0.1uF	5%	50V
C262	1-164-159-11	CERAMIC	0.1uF		50V
C263	1-164-159-11	CERAMIC	0.1uF		50V
C265	1-164-159-11	CERAMIC	0.1uF		50V
C266	1-164-159-11	CERAMIC	0.1uF		50V
C267	1-162-215-31	CERAMIC	47PF	5%	50V
C268	1-162-215-31	CERAMIC	47PF	5%	50V
C269	1-162-215-31	CERAMIC	47PF	5%	50V
C270	1-162-215-31	CERAMIC	47PF	5%	50V

< CONNECTOR >

CNE214	1-691-765-11	PLUG (MICRO CONNECTOR) 3P

< DIODE >

D251	8-719-911-19	DIODE 1SS119-25
D252	8-719-911-19	DIODE 1SS119-25

< IC >

IC251	8-759-529-20	IC NJM2296D
IC252	8-759-529-20	IC NJM2296D

< JACK >

J251	1-537-943-11	TERMINAL, S (MONITOR S-VIDEO OUT)
J252	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 1 S-VIDEO OUT/IN)
J253	1-537-943-11	TERMINAL, S (TV/LD S-VIDEO IN)

< RESISTOR >

R251	1-249-403-11	CARBON	68	5%	1/4W F
R252	1-249-429-11	CARBON	10K	5%	1/4W
R253	1-249-403-11	CARBON	68	5%	1/4W F
R254	1-249-403-11	CARBON	68	5%	1/4W F
R255	1-249-403-11	CARBON	68	5%	1/4W F
R256	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-403-11	CARBON	68	5%	1/4W F
R258	1-249-403-11	CARBON	68	5%	1/4W F
R260	1-249-403-11	CARBON	68	5%	1/4W F
R261	1-249-403-11	CARBON	68	5%	1/4W F

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* A-4417-192-A SP BOARD, COMPLETE
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< CAPACITOR >

C624	1-126-964-11	ELECT	10uF	20%	50V
C626	1-136-153-00	FILM	0.01uF	5%	50V
C724	1-126-964-11	ELECT	10uF	20%	50V
C726	1-136-153-00	FILM	0.01uF	5%	50V
C794	1-126-968-11	ELECT	100uF	20%	50V
C795	1-126-951-11	ELECT	470uF	20%	35V

< CONNECTOR >

* CND602	1-564-337-00	PIN, CONNECTOR 3P	
CNE604	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P	(WIRELESS REAR SPEAKER)
CNS603	1-568-439-11	SOCKET, CONNECTOR 7P	
CNV601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	

< DIODE >

D543	8-719-911-19	DIODE 1SS119-25
D605	8-719-911-19	DIODE 1SS119-25
D606	8-719-911-19	DIODE 1SS119-25
D607	8-719-911-19	DIODE 1SS119-25
D649	8-719-911-19	DIODE 1SS119-25
D705	8-719-911-19	DIODE 1SS119-25
D706	8-719-911-19	DIODE 1SS119-25
D749	8-719-911-19	DIODE 1SS119-25

< IC >

IC702	8-759-605-01	IC M5F78M18L

< JACK >

J501	1-770-157-21	JACK, PIN 2P (WOOFER AUDIO OUT)

< COIL >

L601	1-411-906-11	COIL, AIR-CORE
L701	1-411-906-11	COIL, AIR-CORE
L751	1-411-906-11	COIL, AIR-CORE

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SP | **SP SWITCH** | **STANDBY**

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q544	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q609	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q610	8-729-900-63	TRANSISTOR	DTA124ES			
Q611	8-729-900-63	TRANSISTOR	DTA124ES			
Q645	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q709	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q710	8-729-900-63	TRANSISTOR	DTA124ES			
Q745	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q747	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q748	8-729-030-19	TRANSISTOR	2SB1640			
		< RESISTOR >				
R543	1-249-429-11	CARBON	10K	5%	1/4W	
R544	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R545	1-249-393-11	CARBON	10	5%	1/4W	F
R546	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R629	1-247-866-11	CARBON	30K	5%	1/4W	
R630	1-249-386-11	CARBON	2.7	5%	1/6W	F
R631	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R634	1-249-389-11	CARBON	4.7	5%	1/4W	F
R635	1-249-431-11	CARBON	15K	5%	1/4W	
R636	1-249-433-11	CARBON	22K	5%	1/4W	
R646	1-249-432-11	CARBON	18K	5%	1/4W	
R647	1-249-429-11	CARBON	10K	5%	1/4W	
R648	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R649	1-249-393-11	CARBON	10	5%	1/4W	F
R729	1-247-866-11	CARBON	30K	5%	1/4W	
R730	1-249-386-11	CARBON	2.7	5%	1/6W	F
R731	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R734	1-249-389-11	CARBON	4.7	5%	1/4W	F
R735	1-249-431-11	CARBON	15K	5%	1/4W	
R737	1-249-429-11	CARBON	10K	5%	1/4W	
R738	1-247-887-00	CARBON	220K	5%	1/4W	
R743	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R744	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R745	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R746	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R747	1-249-429-11	CARBON	10K	5%	1/4W	
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R749	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R784	1-249-389-11	CARBON	4.7	5%	1/4W	F
R787	1-249-429-11	CARBON	10K	5%	1/4W	
R788	1-247-887-00	CARBON	220K	5%	1/4W	
		< RELAY >				
RY503	1-515-793-11	RELAY				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
RY901	1-515-999-11	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-450-358-11	TRANSFORMER, POWER				

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Ref. No.	Part No.	Description				Remark
*	1-670-101-11	SP SWITCH BOARD				
		**********				
		< CONNECTOR >				
CNS104	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P				
		< DIODE >				
D122	8-719-911-19	DIODE	1SS119-25			
D123	8-719-911-19	DIODE	1SS119-25			
		< RESISTOR >				
RR141	1-249-413-11	CARBON	470	5%	1/4W	F
RR151	1-249-415-11	CARBON	680	5%	1/4W	F
RR152	1-249-417-11	CARBON	1K	5%	1/4W	F
RR153	1-249-419-11	CARBON	1.5K	5%	1/4W	F
		< SWITCH >				
S114	1-762-751-11	SWITCH, TACTILE (DISPLAY)				
S125	1-762-751-11	SWITCH, TACTILE (SHIFT)				
S126	1-762-751-11	SWITCH, TACTILE (FM/AM)				
S127	1-762-751-11	SWITCH, TACTILE (PRESET TUNING -)				
S128	1-762-751-11	SWITCH, TACTILE (PRESET TUNING +)				
S151	1-762-751-11	SWITCH, TACTILE (**I**/⏻)				
S155	1-762-268-11	SWITCH, ROTARY (SPEAKERS)				

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*	1-669-449-11	STANDBY BOARD				
		**********				
		< CONNECTOR >				
* CNP905	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P				
CNV901	1-564-321-00	PIN, CONNECTOR 2P				
* CNV902	1-565-792-11	PIN, CONNECTOR 2P				
		< DIODE >				
D907	8-719-911-19	DIODE	1SS119-25			
		< FUSE >				
⚠F901	1-532-504-51	FUSE (T4AL/250V)				
⚠F903	1-532-464-51	FUSE (T2.5AL/250V)				
		< FUSE HOLDER >				
FH901	1-533-223-11	HOLDER, FUSE				
FH902	1-533-223-11	HOLDER, FUSE				
FH903	1-533-223-11	HOLDER, FUSE				
FH951	1-533-223-11	HOLDER, FUSE				
FH952	1-533-223-11	HOLDER, FUSE				
FH953	1-533-223-11	HOLDER, FUSE				
		< SWITCH >				
S501	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)				
		< TERMINAL >				
TM701	1-694-431-21	TERMINAL BOARD (SP) (SPEAKERS REAR, CENTER)				

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remark
*	A-4407-589-A	STANDBY (2) BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C901	1-136-157-00	FILM	0.022uF	5%	50V	
C902	1-136-157-00	FILM	0.022uF	5%	50V	
C903	1-126-768-11	ELECT	2200uF	20%	16V	
C904	1-126-960-11	ELECT	1uF	20%	50V	
C905	1-126-959-11	ELECT	0.47uF	20%	50V	
C906	1-124-464-11	ELECT	0.22uF	20%	50V	
C913	1-164-159-11	CERAMIC	0.1uF		50V	
C914	1-164-159-11	CERAMIC	0.1uF		50V	
C916	1-164-159-11	CERAMIC	0.1uF		50V	
C917	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CNE905	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CNE951	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
		< DIODE >				
D901	8-719-200-82	DIODE 11ES2				
D902	8-719-200-82	DIODE 11ES2				
D903	8-719-200-82	DIODE 11ES2				
D904	8-719-200-82	DIODE 11ES2				
D905	8-719-911-19	DIODE 1SS119-25				
D906	8-719-911-19	DIODE 1SS119-25				
		< GROUND TERMINAL >				
* EB900	1-537-738-21	TERMINAL, EARTH				
		< IC >				
IC901	8-759-333-83	IC NJM2103D				
		< TRANSISTOR >				
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q902	8-729-026-68	TRANSISTOR 2SD2525(TP)				
		< RESISTOR >				
R902	1-249-429-11	CARBON	10K	5%	1/4W	
R903	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R904	1-249-417-11	CARBON	1K	5%	1/4W	F
R905	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R906	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R909	1-249-439-11	CARBON	68K	5%	1/4W	
R910	1-249-437-11	CARBON	47K	5%	1/4W	
R912	1-249-430-11	CARBON	12K	5%	1/4W	
**********						
*	A-4407-575-A	SURR BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C300	1-124-589-11	ELECT	47uF	20%	16V	
C301	1-162-282-31	CERAMIC	100PF	10%	50V	
C302	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C303	1-124-589-11	ELECT	47uF	20%	16V	

Ref. No.	Part No.	Description			Remark
C355	1-126-925-11	ELECT	470uF	20%	10V
C356	1-126-933-11	ELECT	100uF	20%	16V
C357	1-126-514-11	ELECT	22uF	20%	10V
C358	1-126-514-11	ELECT	22uF	20%	10V
C400	1-102-951-00	CERAMIC	15PF	5%	50V
C401	1-136-165-00	FILM	0.1uF	5%	50V
C402	1-102-852-91	CERAMIC	47PF	5%	50V
C403	1-130-469-00	MYLAR	680PF	5%	50V
C404	1-136-157-00	FILM	0.022uF	5%	50V
C405	1-102-973-00	CERAMIC	100PF	5%	50V
C406	1-102-953-00	CERAMIC	18PF	5%	50V
C407	1-136-161-00	FILM	0.047uF	5%	50V
C408	1-126-925-11	ELECT	470uF	20%	10V
C409	1-124-261-00	ELECT	10uF	20%	50V
C410	1-126-925-11	ELECT	470uF	20%	10V
C411	1-124-261-00	ELECT	10uF	20%	50V
C412	1-136-164-00	FILM	0.082uF	5%	50V
C413	1-124-465-00	ELECT	0.47uF	20%	50V
C414	1-124-261-00	ELECT	10uF	20%	50V
C415	1-130-477-00	MYLAR	0.0033uF	5%	50V
C416	1-136-177-00	FILM	1uF	5%	50V
C417	1-162-294-31	CERAMIC	0.001uF	10%	50V
C418	1-124-261-00	ELECT	10uF	20%	50V
C419	1-136-164-00	FILM	0.082uF	5%	50V
C420	1-126-925-11	ELECT	470uF	20%	10V
C421	1-136-177-00	FILM	1uF	5%	50V
C422	1-124-465-00	ELECT	0.47uF	20%	50V
C423	1-126-301-11	ELECT	1uF	20%	50V
C424	1-126-925-11	ELECT	470uF	20%	10V
C425	1-126-301-11	ELECT	1uF	20%	50V
C426	1-124-252-00	ELECT	0.33uF	20%	50V
C427	1-136-177-00	FILM	1uF	5%	50V
C428	1-136-177-00	FILM	1uF	5%	50V
C429	1-128-551-11	ELECT	22uF	20%	35V
C430	1-162-282-31	CERAMIC	100PF	10%	50V
C431	1-164-159-11	CERAMIC	0.1uF		50V
C432	1-124-261-00	ELECT	10uF	20%	50V
C433	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-136-165-00	FILM	0.1uF	5%	50V
C435	1-136-165-00	FILM	0.1uF	5%	50V
C436	1-124-261-00	ELECT	10uF	20%	50V
C437	1-164-159-11	CERAMIC	0.1uF		50V
C438	1-124-261-00	ELECT	10uF	20%	50V
C440	1-136-165-00	FILM	0.1uF	5%	50V
C441	1-136-165-00	FILM	0.1uF	5%	50V
C442	1-124-261-00	ELECT	10uF	20%	50V
C444	1-124-465-00	ELECT	0.47uF	20%	50V
C445	1-124-465-00	ELECT	0.47uF	20%	50V
C446	1-126-163-11	ELECT	4.7uF	20%	50V
C447	1-126-163-11	ELECT	4.7uF	20%	50V
C448	1-124-465-00	ELECT	0.47uF	20%	50V
C449	1-124-465-00	ELECT	0.47uF	20%	50V
C450	1-126-163-11	ELECT	4.7uF	20%	50V
C451	1-126-163-11	ELECT	4.7uF	20%	50V
C452	1-124-250-11	ELECT	0.15uF	20%	50V
C453	1-124-250-11	ELECT	0.15uF	20%	50V
C454	1-126-162-11	ELECT	3.3uF	20%	50V

SURR **SW**

Ref. No.	Part No.	Description			Remark
C455	1-126-162-11	ELECT	3.3uF	20%	50V
C456	1-124-250-11	ELECT	0.15uF	20%	50V
C457	1-124-250-11	ELECT	0.15uF	20%	50V
C458	1-124-261-00	ELECT	10uF	20%	50V
C476	1-102-518-11	CERAMIC	33PF	5%	50V
C495	1-136-165-00	FILM	0.1uF	5%	50V
CC09	1-162-282-31	CERAMIC	100PF	10%	50V
CC10	1-162-282-31	CERAMIC	100PF	10%	50V
CC11	1-162-282-31	CERAMIC	100PF	10%	50V
CC12	1-162-282-31	CERAMIC	100PF	10%	50V
CC13	1-162-282-31	CERAMIC	100PF	10%	50V
CC59	1-162-282-31	CERAMIC	100PF	10%	50V
CC60	1-162-282-31	CERAMIC	100PF	10%	50V
CC61	1-162-282-31	CERAMIC	100PF	10%	50V
CC62	1-162-282-31	CERAMIC	100PF	10%	50V
CC63	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
* CNP702	1-564-519-11	PLUG, CONNECTOR 4P			
CNS211	1-568-439-11	SOCKET, CONNECTOR 7P			
CNS401	1-569-060-11	SOCKET, CONNECTOR 11P			
CNS402	1-568-442-11	SOCKET, CONNECTOR 9P			
CNS406	1-569-060-11	SOCKET, CONNECTOR 11P			
		< DIODE >			
D401	8-719-070-77	DIODE SVC201SPA-M1-AC			
		< IC >			
IC300	8-759-805-14	IC LC7822			
IC400	8-759-528-36	IC CXA8081S			
IC401	8-759-528-35	IC CXA8079S			
IC403	8-759-805-15	IC LC7823			
IC404	8-759-634-51	IC M5218AP			
IC407	8-759-604-38	IC M5F78M10L			
		< JACK >			
J300	1-774-411-11	JACK, PIN 6P (TV/LD AUDIO IN, VIDEO 2 AUDIO OUT/IN)			
J301	1-573-028-31	JACK, PIN 4P (VIDEO 1 AUDIO OUT/IN)			
		< COIL >			
L400	1-410-509-11	INDUCTOR 10uH			
		< RESISTOR >			
R301	1-249-417-11	CARBON	1K	5%	1/4W F
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R312	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-249-417-11	CARBON	1K	5%	1/4W F
R320	1-249-425-11	CARBON	4.7K	5%	1/4W F
R321	1-249-397-11	CARBON	22	5%	1/4W F
R322	1-249-417-11	CARBON	1K	5%	1/4W F
R323	1-249-397-11	CARBON	22	5%	1/4W F
R400	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-436-11	CARBON	39K	5%	1/4W
R402	1-249-425-11	CARBON	4.7K	5%	1/4W F
R403	1-249-417-11	CARBON	1K	5%	1/4W F
R451	1-249-435-11	CARBON	33K	5%	1/4W
R458	1-249-436-11	CARBON	39K	5%	1/4W

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*	1-670-095-11	SW BOARD	
		**********	
		< CONNECTOR >	
* CNS107	1-695-808-11	CONNECTOR, PC BOARD 8P	
		< DIODE >	
D113	8-719-058-64	DIODE SEL5823A-TP15 (SURROUND)	
D114	8-719-058-64	DIODE SEL5823A-TP15 (BASS/TREBLE)	
D115	8-719-058-64	DIODE SEL5823A-TP15 (INDEX)	
		< RESISTOR >	
R149	1-249-411-11	CARBON 330	5% 1/4W
RR131	1-249-409-11	CARBON 220	5% 1/4W F
RR132	1-249-411-11	CARBON 330	5% 1/4W
RR133	1-249-413-11	CARBON 470	5% 1/4W F
RR134	1-249-415-11	CARBON 680	5% 1/4W F
RR135	1-249-417-11	CARBON 1K	5% 1/4W F
RR136	1-249-419-11	CARBON 1.5K	5% 1/4W F
RR137	1-249-421-11	CARBON 2.2K	5% 1/4W F
RR138	1-249-425-11	CARBON 4.7K	5% 1/4W F
RR139	1-249-429-11	CARBON 10K	5% 1/4W
RR142	1-249-409-11	CARBON 220	5% 1/4W F
RR143	1-249-411-11	CARBON 330	5% 1/4W
RR144	1-249-413-11	CARBON 470	5% 1/4W F
RR145	1-249-415-11	CARBON 680	5% 1/4W F
RR146	1-249-417-11	CARBON 1K	5% 1/4W F
RR147	1-249-419-11	CARBON 1.5K	5% 1/4W F
RR148	1-249-421-11	CARBON 2.2K	5% 1/4W F
		< SWITCH >	
S102	1-762-751-11	SWITCH, TACTILE (FM MODE)	
S103	1-762-751-11	SWITCH, TACTILE (TUNING -)	
S104	1-762-751-11	SWITCH, TACTILE (TUNING +)	
S105	1-762-751-11	SWITCH, TACTILE (MEMORY)	
S106	1-762-751-11	SWITCH, TACTILE (CURSOR MODE)	
S107	1-762-751-11	SWITCH, TACTILE (SET UP)	
S108	1-762-751-11	SWITCH, TACTILE (∧)	
S109	1-762-751-11	SWITCH, TACTILE (<)	
S110	1-762-751-11	SWITCH, TACTILE (∨)	
S111	1-762-751-11	SWITCH, TACTILE (>)	
S115	1-762-751-11	SWITCH, TACTILE (RDS PTY)	
S116	1-762-751-11	SWITCH, TACTILE (RDS EON)	
S117	1-762-751-11	SWITCH, TACTILE (5.1/DVD INPUT)	
S118	1-762-751-11	SWITCH, TACTILE (TONE ON/OFF)	
S119	1-762-751-11	SWITCH, TACTILE (BASS BOOST)	
S120	1-762-751-11	SWITCH, TACTILE (SOUND FIELD GENRE)	
S121	1-762-751-11	SWITCH, TACTILE (SOUND FIELD MODE)	

Ref. No.	Part No.	Description			Remark
S122	1-762-751-11	SWITCH, TACTILE (SOUND FIELD ON/OFF)			
**********					
*	1-670-097-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-162-215-31	CERAMIC	47PF	5%	50V
C206	1-162-215-31	CERAMIC	47PF	5%	50V
C207	1-162-215-31	CERAMIC	47PF	5%	50V
C208	1-126-960-11	ELECT	1uF	20%	50V
C209	1-164-159-11	CERAMIC	0.1uF		50V
C210	1-164-159-11	CERAMIC	0.1uF		50V
C211	1-164-159-11	CERAMIC	0.1uF		50V
C212	1-164-159-11	CERAMIC	0.1uF		50V
C213	1-126-933-11	ELECT	100uF	20%	16V
C214	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
CNE217	1-564-505-11	PLUG, CONNECTOR 2P			
CNS211	1-569-321-11	SOCKET, CONNECTOR 15P			
CNS212	1-568-439-11	SOCKET, CONNECTOR 7P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119-25			
D202	8-719-911-19	DIODE 1SS119-25			
		< IC >			
IC201	8-759-529-20	IC NJM2296D			
IC202	8-759-701-65	IC NJM79M05FA			
		< JACK >			
J201	1-770-337-11	JACK, PIN 3P (VIDEO 1 VIDEO OUT/IN, MONITOR VIDEO OUT)			
J202	1-695-317-21	JACK, PIN 2P (VIDEO 2 VIDEO OUT/IN)			
J203	1-695-317-21	JACK, PIN 2P (5.1/DVD INPUT, TV/LD VIDEO IN)			
J204	1-563-330-11	JACK (S-LINK CTRL A1)			
		< RESISTOR >			
R201	1-249-403-11	CARBON	68	5%	1/4W F
R202	1-249-403-11	CARBON	68	5%	1/4W F
R203	1-249-403-11	CARBON	68	5%	1/4W F
R204	1-249-403-11	CARBON	68	5%	1/4W F
R205	1-249-403-11	CARBON	68	5%	1/4W F
R206	1-249-403-11	CARBON	68	5%	1/4W F
R207	1-249-403-11	CARBON	68	5%	1/4W F
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Ref. No.	Part No.	Description			Remark
*	1-670-100-11	VIDEO (3) BOARD			
		**********			
		< CAPACITOR >			
C299	1-164-159-11	CERAMIC	0.1uF		50V
CC14	1-162-282-31	CERAMIC	100PF	10%	50V
CC64	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CN307	1-564-524-11	PLUG, CONNECTOR 9P			
		< GROUND TERMINAL >			
EB100	1-537-738-21	TERMINAL, EARTH			
		< JACK >			
J298	1-784-808-11	TERMINAL, S (VIDEO 3 INPUT S-VIDEO)			
J299	1-770-571-11	JACK BLOCK, PIN (L TYPE) 3P (VIDEO 3 INPUT VIDEO/AUDIO)			
		< RESISTOR >			
R297	1-249-403-11	CARBON	68	5%	1/4W F
R298	1-249-403-11	CARBON	68	5%	1/4W F
R299	1-249-403-11	CARBON	68	5%	1/4W F
R321	1-249-417-11	CARBON	1K	5%	1/4W F
R371	1-249-417-11	CARBON	1K	5%	1/4W F
**********					
*	1-670-098-11	VOLUME BOARD			
		**********			
		< CONNECTOR >			
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP106	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CNS402	1-569-323-11	SOCKET, CONNECTOR 19P			
		< RESISTOR >			
R199	1-249-411-11	CARBON	330	5%	1/4W
		< VARIABLE RESISTOR >			
RV401	1-225-445-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			
**********					
		MISCELLANEOUS			
		**********			
3	1-769-877-11	WIRE (FLAT TYPE)(7 CORE)(90mm)			
6	1-769-875-11	WIRE (FLAT TYPE)(7 CORE)(70mm)			
8	1-693-409-11	TUNER			
10	1-769-941-11	WIRE (FLAT TYPE)(11 CORE)			
11	1-769-908-11	WIRE (FLAT TYPE)(9 CORE)			
⚠14	1-769-744-11	CORD, POWER			
71	1-783-777-11	WIRE (FLAT TYPE)(13 CORE)			
72	1-773-024-11	WIRE (FLAT TYPE)(15 CORE)(320mm)			
106	1-773-110-11	WIRE (FLAT TYPE)(19 CORE)			
109	1-773-008-11	WIRE (FLAT TYPE)(15 CORE)(140mm)			
⚠CNJ909	1-526-794-11	OUTLET, AC (AC OUTLET)			
FL101	1-517-770-11	INDICATOR TUBE, FLUORESCENT			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
Q505	8-729-209-15	TRANSISTOR 2SD2012	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q555	8-729-209-15	TRANSISTOR 2SD2012	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-209-15	TRANSISTOR 2SD2012	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q705	8-729-209-15	TRANSISTOR 2SD2012	
Q706	8-749-010-25	IC MN2488-OPY-M	
Q707	8-749-010-26	IC MP1620-OPY-M	
Q755	8-729-209-15	TRANSISTOR 2SD2012	
Q756	8-749-010-25	IC MN2488-OPY-M	
Q757	8-749-010-26	IC MP1620-OPY-M	
⚠T901	1-431-811-11	TRANSFORMER, POWER	

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ACCESSORIES & PACKING MATERIALS
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	1-475-726-11	REMOTE COMMANDER (RM-LJ301)(DB825)
	1-501-374-11	ANTENNA, LOOP
	3-810-765-21	MANUAL,COMMONNESS INSTRUCTION (FOR CONTROL A1) (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH, SWEDISH,ITALIAN,PORTUGUESE,CHINESE)(DB825)
	3-864-029-61	MANUAL, INSTRUCTION (ENGLISH,FRENCH,DUTCH,SWEDISH)
	3-864-029-71	MANUAL, INSTRUCTION (GERMAN,SPANISH,ITALIAN,PORTUGUESE)
	3-864-230-11	MANUAL, INSTRUCTION (RM-PP401) (ENGLISH)(DB725)
	3-864-230-21	MANUAL, INSTRUCTION (RM-PP401) (FRENCH,SPANISH)(DB725)
	3-864-230-31	MANUAL, INSTRUCTION (RM-PP401) (DUTCH,SWEDISH,GERMAN,ITALIAN,PORTUGUESE)(DB725)
	3-864-441-11	MANUAL, INSTRUCTION (RM-LJ301) (ENGLISH)(DB825)
	3-864-441-21	MANUAL, INSTRUCTION (RM-LJ301) (FRENCH,SPANISH)(DB825)
	3-864-441-41	MANUAL, INSTRUCTION (RM-LJ301) (DUTCH,SWEDISH,GERMAN,ITALIAN,PORTUGUESE) (DB825)
	4-212-261-01	COVER (FRONT)(FOR RM-LJ301)(DB825)
	4-210-990-01	LID (RM-LJ301), BATTERY CASE (DB825)
	4-978-977-01	LID (RM-PP401), BATTERY CASE
	8-917-634-90	REMOTE COMMADER RM-PP401 (DB725)
	X-4950-287-1	LID ASSY (FRONT)(FOR RM-PP401)(DB725)

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HARDWARE LIST
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#1	7-685-885-09	SCREW +BVTT 4X16 (S)
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
#3	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Sony Corporation
Home A&V Products Company

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